



Nakamichi

Service Manual

Nakamichi

TD-700

TD-700E

TD-700D

Mobile Tuner/Cassette Deck



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1. GENERAL

1.1. Packing Materials, Owner's Manual and Auxiliary Parts

Part No.	Description	Q'ty
0F03845A	Outer Carton TD-700	1
0F03858A	Outer Carton TD-700E	1
0F03836A	Outer Carton TD-700D	1
0F03822A	Inner Carton TD-700 (U.S.A.)	1
0F03823A	Inner Carton TD-700 (Canada, Australia, Others & Japan)	1
0F03827A	Inner Carton TD-700E	1
0F03835A	Inner Carton TD-700D	1
0F03831A	Packing	2
0F03832A	Sleeve	1
0D04479A	Owner's Manual TD-700/TD-500 (Japanese)	1
0D04480A	Owner's Manual TD-700/TD-500 (English)	1
0D04482A	Owner's Manual TD-700/TD-500, TD-700E/TD-500E & TD-700D/TD-500D (English/German/French)	1
0D04481A	French Text TD-700/TD-500 (Canada)	1
0B90003A	Fuse 0.5A	1
0B90042A	Fuse 10A	1
0B61287E	4P Terminal TD-700 & TD-700E	1
0B61287E	4P Terminal TD-700D	1
0D04507A	Mobile Stay (except Japan)	1
0B90057B	Ground Wire (except Japan)	1
0J04872A	U-shaped Grip (except Japan)	2
0H04459A	Trim Panel Rim (except Japan)	1
0J04879A	Sleeve Spacer A (thin type) (except Japan)	1
0J04880A	Sleeve Spacer B (thick type) (except Japan)	1
HA04665A	Mobile Traffic Information Processor TD-700	1

1.2. Note on Operation

If the Rewind button is pressed before the cassette tape loading process is completed, unexpected action may occur depending on the condition of the Mobile Tuner/Cassette Deck. The cassette tape may be ejected or played back unwillingly.

2. REMOVAL PROCEDURES

2.1. Top and Bottom Covers

Refer to Fig. 2.1.

- (1) Remove F01 (Mounting Sleeve).
- (2) Loosen screws F02 (1 pc.) and F03 (2 pcs.) and remove F04 (Top Cover).
- (3) Loosen screws F05 (1 pc.) and F06 (3 pcs.) and remove F07 (Bottom Cover).

2.2. Front Panel Ass'y

Refer to Fig. 2.2.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F01 and pull out knobs F02, F03 and F04.
- (3) Loosen F05 and remove F06 (Front Panel Ass'y including Cleaning Flap Ass'y).

2.3. Control P.C.B. Ass'y and Front Chassis

Refer to Fig. 2.2.

- (1) Remove the Front Chassis referring to item 2.3.
- (2) Loosen F07 and remove F08 (Control P.C.B. Ass'y).
- (3) Loosen F09 and F10 and remove F11, F12, F13 and F14.
- (4) Insert a small flat-blade screwdriver into the holes in the Main Chassis as shown in the figure and lift the upper part of the connector to unlock the flexible P.C.B. of the LCD Ass'y.
- (5) Disconnect connectors A and B and disassemble F15 (Front Chassis including LCD Ass'y, etc.).

2.4. Volume P.C.B. Ass'y

Refer to Fig. 2.2.

- (1) Remove the Front Chassis referring to item 2.3.
- (2) Loosen F16 and disassemble F17 and F18 (Volume P.C.B. Ass'y).

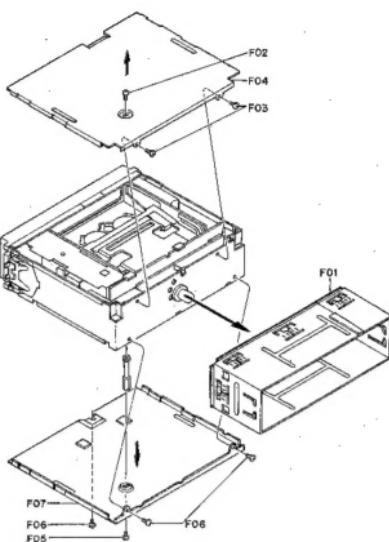


Fig. 2.1

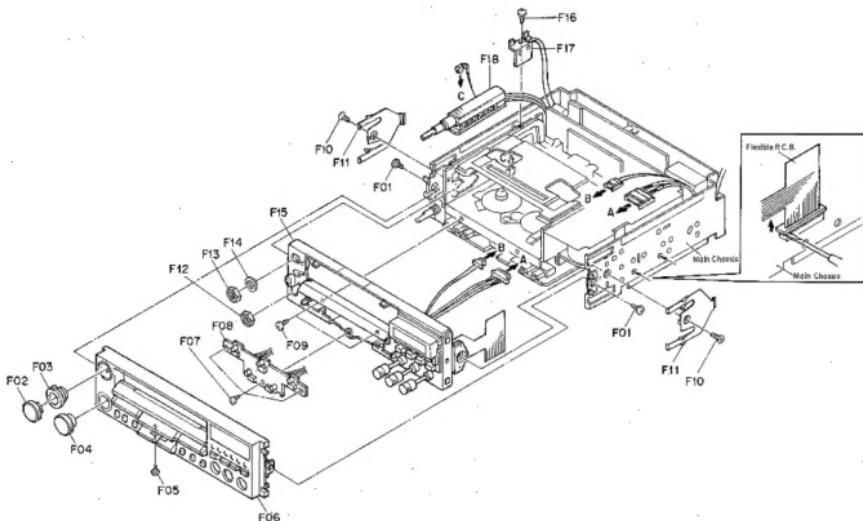


Fig. 2.2

2.5. Tuner P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F01, disconnect connectors A and B, and remove F02 (Tuner P.C.B. Ass'y) and F03.

2.6. Motor P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Remove the Tuner P.C.B. Ass'y and Motor P.C.B. Ass'y referring to items 2.5 and 2.6.
- (3) Loosen F07 and disconnect connector G.
- (4) Lift F08 (Amp. P.C.B. Ass'y), disconnect connectors H, I and J, and remove F08 (Amp. P.C.B. Ass'y).

2.7. Amp. P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Remove the Tuner P.C.B. Ass'y and Motor P.C.B. Ass'y referring to items 2.5 and 2.6.
- (3) Loosen F07 and disconnect connector G.
- (4) Lift F08 (Amp. P.C.B. Ass'y), disconnect connectors H, I and J, and remove F08 (Amp. P.C.B. Ass'y).

2.8. Transport Mechanism Ass'y

Refer to Fig. 2.4.

- (1) Remove the Front Chassis and the Volume P.C.B. Ass'y referring to Items 2.3 and 2.4.
- (2) Loosen F01, remove F02, and lift F03 (Motor P.C.B. Ass'y).
- (3) Disconnect connectors A, B, C and D.
- (4) Pull out F04 (Amp. P.C.B. Ass'y) and disconnect connector E.
- (5) Loosen F05, lift F06 (Transport Mechanism Ass'y and Motor P.C.B. Ass'y), and disconnect connector F to separate F06.

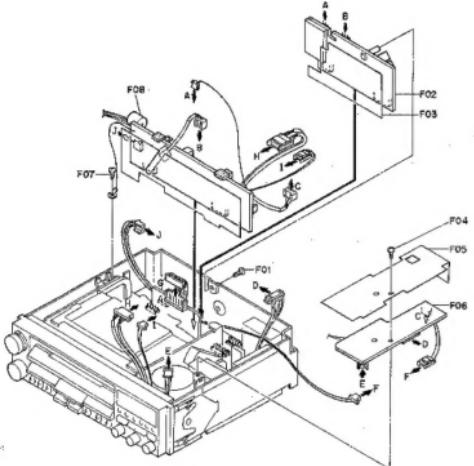


Fig. 2.3

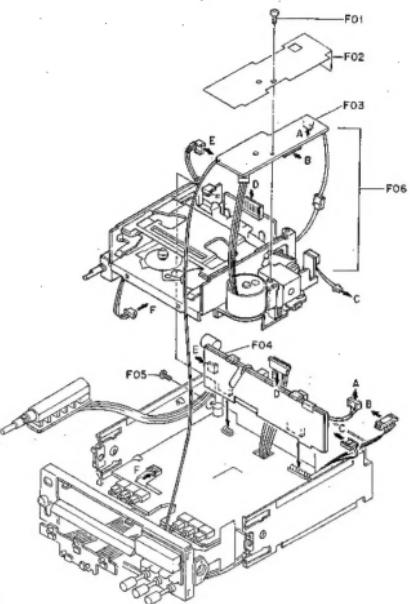


Fig. 2.4

3. TEST TAPES AND GAUGES

- (1) 1 kHz Track Alignment Tape (DA09007B)
- (2) 15 kHz Azimuth Tape (DA09004B)
- (3) 400 Hz Level Tape (DA09005B)
- (4) 3 kHz Speed & Wow/Flutter Tape (DA09006C)
- (5) Torque Gauge for Forward Playback (DA09082A)
- (6) Torque Gauge for F.F. & REW (DA09084A)
- (7) Head Alignment Gauge (DA09092A)

4. MECHANICAL ADJUSTMENTS

Note: Before adjustment, remove the Top and Bottom Covers referring to item 2.1.

4.1. Tape Speed Adjustment

Refer to Fig. 4.1.

- (1) Connect a frequency counter to Output Jack.
- (2) Load a 3 kHz Speed & Wow/Flutter Tape and play it back.
- (3) Adjust the potentiometer incorporated in the Main Motor Ass'y to obtain a 3 kHz reading on the frequency counter.

4.2. Tape Guide Height Adjustment

- (1) For Serial Nos.: C605012839 - (TD-700 & TD-700E) and C60701201 - (TD-700D)

Note: Remove the Cleaning Flap before loading the Head Alignment Gauge. When ejecting the Head Alignment Gauge pay attention so as not to strike against the Tape Slot Cover.

Refer to Fig. 4.2.

- (a) Turn the Azimuth Fine Tuning Control fully clockwise and then return it by 15 clicks to set it to the center position.
- (b) Load a base of the Head Alignment Gauge carefully and set the Mobile Tuner/Cassette Deck in Play mode.
- (c) Place a small block of the Head Alignment Gauge on the base.
- (d) Slide the small block against the Supply Tape Guide, and adjust the Tape Guide Height Adjustment Screw so that the small block is accepted by the Supply Tape Guide.

- (2) For Serial Nos.: C60501001 - 02838 (TD-700 & TD-700E) and C60701001 - 01200 (TD-700D)

Refer to Fig. 4.3.

- (a) Set the Azimuth Fine Tuning Control fully clockwise and then return it by 15 clicks to set it to the center position.
- (b) Connect a VTVM to the Output Jacks.
- (c) Load a 1 kHz Track Alignment Tape and play it back.
- (d) Turn the Tape Guide Height Adjustment Screw to obtain minimum readings on the VTVM for both channels.

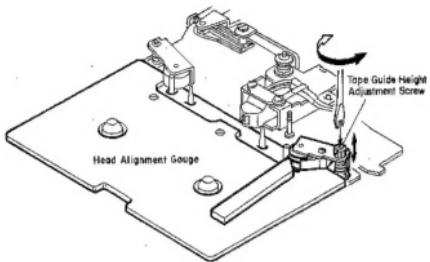


Fig. 4.2
Serial No.: C605012839 -
(TD-700 & TD-700E)
C60701201 - (TD-700D)

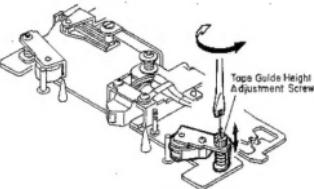


Fig. 4.3
Serial Nos.: C60501001 - 02838
(TD-700 & TD-700E)
C60701001 - 01200
(TD-700D)

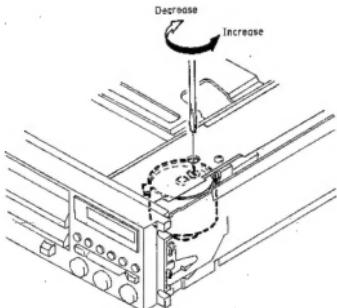


Fig. 4.1

4.3. Playback Head Height Adjustment and Azimuth Alignment

(1) For Serial Nos.: C60502839 - (TD-700 & TD-700E) and
C60701201 - (TD-700D)

Refer to Fig. 4.4.

- Connect a VTVM to the Output Jacks.
- Set the Azimuth Fine Tuning Control to the center position referring to 4.2-(1)-(a).
- Load a 1 kHz Track Alignment Tape and play it back.
- Turn the Playback Head Height Adjustment Screw to obtain minimum readings on the VTVM for both channels.
- Load a 15 kHz Azimuth Alignment Tape and play it back.
- Turn the Azimuth Alignment Screw to obtain maximum readings on the VTVM for both channels.
- Repeat above steps (c) through (f) one or two times to obtain optimum performance.

(2) For Serial Nos.: C60501001 - 02838 (TD-700 & TD-700E) and C60701001 - 01200 (TD-700D)

Refer to Fig. 4.5.

- Connect a VTVM to the Output Jacks.
- Load a 15 kHz Azimuth Alignment Tape and play it back.
- Turn the Azimuth Alignment Screw to obtain maximum readings on the VTVM for both channels.

Note: Playback Head Height Adjustment Screw is not provided in these Models.

4.4. Torque Adjustment

Refer to Fig. 4.6.

- Load a Torque Gauge for Forward Playback.
- Set the Mobile Tuner/Cassette Deck in Play mode.
- Check whether the playback torque and back tension torque on the Gauge are as follows:
Playback torque: 35 g-cm -5 to +10 g-cm
Back tension torque: 10 g-cm ± 4 g-cm
- If the playback torque is out of the above range, turn the Playback Torque Adjustment Screw with a small flat-blade screwdriver to obtain a satisfactory result.
- Set the Mobile Tuner/Cassette Deck in Stop mode and then load a Torque Gauge for F.F. & REW.
- Set the Mobile Tuner/Cassette Deck in F.F. or Rewind mode and check that the torque is in the range shown below:
F.F./Rewind torque: 60 g-cm -10 to +40 g-cm (50 to 100 g-cm)

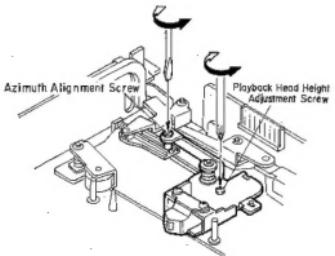


Fig. 4.4
Serial No.: C60502839 -
(TD-700 & TD-700E)
C60701201 - (TD-700D)

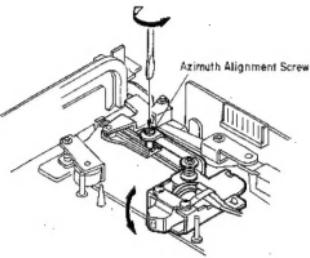


Fig. 4.5
Serial No.: C60501001 - 02838
(TD-700 & TD-700E)
C60701001 - 01200
(TD-700D)

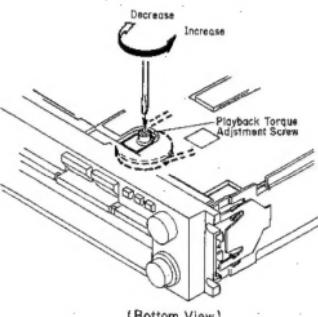


Fig. 4.6

5. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

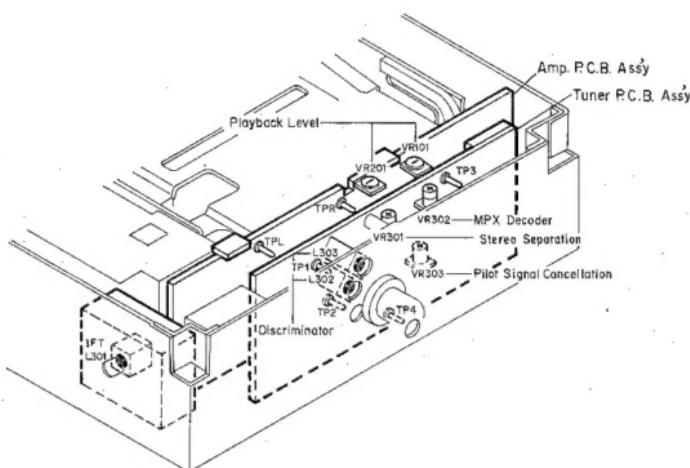


Fig. 5

6. ELECTRICAL ADJUSTMENTS

6.1. Cassette Deck Section

Note: Electrical adjustment should be performed after mechanical adjustment is completed.

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUST-MENT	REMARKS
1	Preliminary Step			Volume - Max. Fader, Balance - Center Bass, Mid, Treble - Center		Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE).
2	Playback Level Adjustment	400 Hz Level Tape	VTVM to TPL, TPR on Amp. P.C.B.	Playback Eq. SW - 70 μ s	Amp. P.C.B., VR101, VR201	1. Load a 400 Hz level tape and play it back. 2. Adjust VR101 (VR201) to obtain 350 mV on the VTVM.

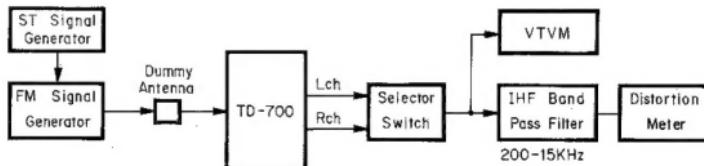


Fig. 6 Connection Diagram for FM Adjustment

6.2. Tuner Section (FM Adjustment)

Note: Adjustment should be made in a shielded room in principle.

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUST- MENT	REMARKS	STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUST- MENT	REMARKS	
1	Preliminary Step	See Fig. 6	Mobile Tuner/ Cassette Deck Dolby NR - OFF Band Selector - FM Volume - Max. Fader, Balance - Center Bass, Mid, Treble - Center		<p>1. Connect necessary instruments to the Mobile Tuner/Cassette Deck referring to connection diagram (Fig. 6).</p> <p>2. Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE).</p> <p>Modulation Ratio:</p> <p>Stereo</p> <p>TD-700 (U.S.A. & Canada): Audio 1 kHz 90%, Pilot 19 kHz 10%</p> <p>TD-700 (Australia & Others), TD-700E & TD-700D: Audio 1 kHz 50%, Pilot 19 kHz 10%</p> <p>Mono</p> <p>TD-700 (U.S.A. & Canada): Audio 1 kHz 100%</p> <p>TD-700 (Australia & Others), TD-700E & TD-700D: Audio 1 kHz 60%</p> <p>Modulation Ratio - (See REMARKS)</p>	5	Pilot Signal Cancel- lation Adjustment	Mobile Tuner/ Cassette Deck Same as above	Tuner P.C.B. VR303	<p>1. Set the modulation of the FM Generator as follows:</p> <ul style="list-style-type: none"> o Cut audio signal 1 kHz o Apply only pilot 19 kHz 10% <p>2. Adjust VR303 to obtain minimum readings on the VTVM for both channels. The minimum reading should be less than -40 dB.</p>		
2	IFT Adjustment		Mobile Tuner/ Cassette Deck Same as above	Front-end IFT Coil L301	<p>With decreasing the RF level gradually from 65 dBf to 30 dBf, adjust IFT coil L301 to obtain minimum distortion. (Do not turn other components on the Front-end.)</p>	6	Stereo Separation	Mobile Tuner/ Cassette Deck Same as above	Tuner P.C.B. VR301	<p>1. Cut the 1 kHz modulation of R channel of the stereo modulator. Namely, apply 1 kHz signal only to L channel.</p> <p>2. Adjust VR301 to obtain minimum reading for R channel on the VTVM.</p> <p>3. Apply 1 kHz signal only to R channel.</p> <p>4. Adjust VR301 to obtain minimum reading for L channel on the VTVM.</p> <p>5. Check whether the readings in 2 and 4 are less than -30 dB. If not, repeat 1 through 4 till satisfactory results are obtained.</p>		
3	MPX Decoder Adjustment	Frequency Counter to TP3 on Tuner P.C.B.	Mobile Tuner/ Cassette Deck Same as above	Tuner P.C.B. VR302	<p>1. Cut the RF signal applied to the Mobile Tuner/Cassette Deck.</p> <p>2. Adjust VR302 to obtain 76 kHz \pm1 kHz on the frequency counter.</p>	7	Offset Voltage Check on IC301	DC Millivolt- meter across IC301-14 and GND on Tuner P.C.B.	Mobile Tuner/ Cassette Deck Same as above	<p>FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono</p>	<p>Note: This check will be required only if IF Amp. IC301 (LA1140) on the Tuner P.C.B. As'y is replaced with new one. At that time, conduct Step 3 (adjustment of L302 and L303 on Tuner P.C.B.) and then check the following:</p> <ol style="list-style-type: none"> 1. Set the modulation signal of FM generator to 1 kHz (Mono). 2. Check whether the reading on the DC millivoltmeter is less than 5 mV. 3. If not, replace with another LA1140 and repeat above 1 and 2 after re-adjustment of Step 3. 	
4	Discrimi- nator Adjustment	DC Millivolt- meter between TP1 and TP2 on Tuner P.C.B.	Mobile Tuner/ Cassette Deck Same as above	Tuner P.C.B. L302,L303	<p>1. Turn L302 (black core) to obtain \pm50 mV on the DC millivoltmeter.</p> <p>2. Turn L303 (white core) to obtain minimum distortion on the distortion meter.</p> <p>3. Repeat above 2 and 3 two or three times.</p>							

7. MECHANISM ASS'Y AND PARTS LIST

7.1. Synthesis

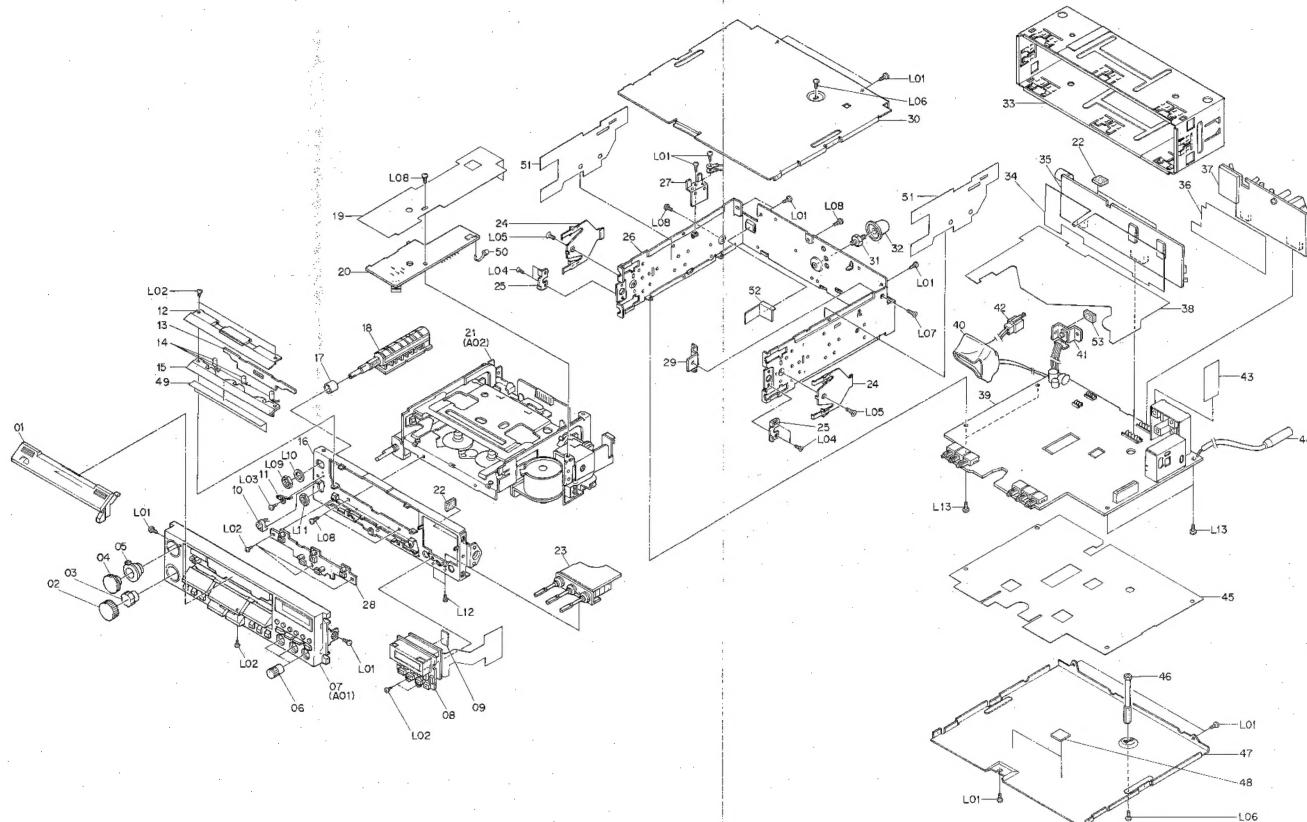


Fig. 7.1

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty	
		Synthesis						
01	HA04783A	Cleaning Flap Ass'y TD-700	1	37	BA05423A	Tuner P.C.B. Ass'y TD-700 (Japan)	1	
	HA04785A	Cleaning Flap Ass'y TD-700E	1		BA05424B	Tuner P.C.B. Ass'y TD-700 (U.S.A. & Canada)	1	
	HA04784A	Cleaning Flap Ass'y TD-700D	1		BA05458A	Tuner P.C.B. Ass'y TD-700 (Australia & Others), TD-700E, TD-700D	1	
02	OH04455A	Azimuth Knob Cap	1	38	OJ04882B	Input P.C.B. Ass'y TD-700 (Japan)	1	
03	HA04674A	Azimuth Knob Ass'y	1	39	BA05618A	Logic P.C.B. Ass'y TD-700 (Serial No.: C60503399 -)	1	
04	HA04675A	Volum Knob Ass'y	1		BA05619A	Logic P.C.B. Ass'y TD-700 (U.S.A. & Canada)	1	
05	OH04456A	Filter Knob	1		BA05620A	Logic P.C.B. Ass'y TD-700 (Serial No.: C60503399 -)	1	
06	OH04457A	Tone Control Knob	1		BA05622A	Logic P.C.B. Ass'y TD-700D (Serial No.: C60503399 -)	1	
07	HA04776A	Front Panel Ass'y TD-700 (Serial No.: C60502501 -)	1		BA05407A	Logic P.C.B. Ass'y TD-700 (Serial No.: C60501001 - 02500)	1	
	HA04776A	Front Panel Ass'y TD-700E (Serial No.: C60502501 -)	1		BA05427A	Logic P.C.B. Ass'y TD-700 (Serial No.: C60501001 - 01200)	1	
	HA04778A	Front Panel Ass'y TD-700D (Serial No.: C60501251 -)	1		BA05451A	Logic P.C.B. Ass'y TD-700 (Serial No.: C60501001 - 03398)	1	
	HA04677C	Front Panel Ass'y TD-700 (Serial No.: C60501001 - 02500)	1		BA05452A	Logic P.C.B. Ass'y TD-700D (Serial No.: C60501001 - 01250) (Logic P.C.B. Ass'y includes the following)	1	
	HA04679C	Front Panel Ass'y TD-700E (Serial Nos.: C60501001 - 02500)	1		BA055049A	(Line Filter P.C.B. Ass'y) (Transistor P.C.B. Ass'y) (4P Terminal TD-700 & TD-700E)	1	
	HA04681C	Front Panel Ass'y TD-700D (Serial Nos.: C60501001 - 01200)	1		BA081268B	(4P Terminal TD-700 & TD-700D)	1	
08	BA05485A	LCD Ass'y TD-700 (Japan)	1		BA081272B	(4P Terminal TD-700)	1	
	BA05486A	LCD Ass'y TD-700 (U.S.A. & Canada)	1		0J04898A	Tuner Insulator B	1	
	BA05487A	LCD Ass'y TD-700 (Australia & Others), TD-700E & TD-700D (LCD Ass'y includes the following)	1		0J081270A	Antenna Cable	1	
09	(BA05516A)	(Build Ass'y, P.C.B. Ass'y (except for Japan))	(1)		0J04860B	Insulator B	1	
10	BA05423A	Illumination Lamp Ass'y	1		0J04451G	Stud	1	
11	OB70029A	Light Switch	1		0J04860B	Bottom Cover	1	
12	OH04474B	Illuminator Cover	1		0J04896A	Heat Sink Sheet	2	
13	OB60121A	Control Lamp P.C.B.	1		0J04897A	Illuminator B Sheet	1	
14	OB90030A	Lamp 14V 65mA	1		0J090021A	Band EG-9	1	
15	OH04670B	Illuminator B	1		0J04894C	Inductor C	2	
16	OB90031A	PCB Chassis	1		0J04880C	Wire Supporter	1	
17	OJ04853A	Spacer	1		0J04899A	Cushion B	1	
18	BA05422A	Volume P.C.B. Ass'y TD-700 & TD-700E	1		OB41023A	Ceramic Capacitor 0.022uF 25V (TD-700)	1	
	BA05466A	Volume P.C.B. Ass'y TD-700D	1		L01	0E03203A	ST2.6x5 @ Binding	12
19	OJ04887B	Motor P.C.B. Insulator	1		L02	0E03204A	ST2x4 @ Binding	8
20	BA05414A	Motor P.C.B. Ass'y	1		L03	0E03205A	M2x4 @ Binding	1
21	CA08716A	Transport Mechanism Ass'y (Serial No.: C60503399 - (TD-700 & TD-700E)) (Serial No.: C60701251 - (TD-700D))			L04	0E03213A	ST2x4 @ Countersunk	4
		(Serial No.: C60701251 - (TD-700D))			L05	0E00533A	M2x5 @ Countersunk	2
22	OJ04892A	Cushion A	3		L06	0E03072A	M2.6x5 @ Binding	2
23	BA05613A	Tone Volume P.C.B. Ass'y (Serial No.: C60503551 - (TD-700 & TD-700E)) (Serial No.: C60701301 - (TD-700D))	1		L07	0E00007A	M2.6x5 @ Countersunk	2
		(Serial No.: C60701301 - (TD-700D))			L08	0E00791A	M2.6x5 @ Binding	5
		Tone Volume P.C.B. Ass'y (Serial No.: C60501001 - 03550 (TD-700 & TD-700E)) (Serial No.: C60701001 - 01300 (TD-700D))			L09	-	Nut	(1)
24	OJ04873B	Sleeve Stopper (except for Japan)	2		L10	0E03204A	Washer	(1)
25	OJ04864A	Sleeve Stopper (except for Japan)	2		L11	0E03240A	Nut Hex. M3	1
26	OJ04864A	Main Chassis	1		L12	0E03244A	M2x4 @ Flat	2
27	OH04449E	Arm Protector	1		L13	0E03219A	ST2.6x6 @ Binding	4
28	OJ04890A	Control P.C.B. Ass'y	1					
29	BA05415A	Cable Holder	1					
30	OJ04856A	Top Cover	1					
31	OB90030F	Top Screw (except for Japan)	1					
32	OJ04850A	Bubble Cap (except for Japan)	1					
33	OJ04870A	Mounting Sleeve (except for Japan)	1					
	OJ04852D							
34		Amp. P.C.B. Insulator	1					
35	OJ04885B	Amp. P.C.B. Ass'y (Serial No.: C60503551 - (TD-700 & TD-700E)) (Serial No.: C60701301 - (TD-700D))	1					
	BA05611A							
	BA05476B	Amp. P.C.B. Ass'y (Serial No.: C60501001 - 03550 (TD-700 & TD-700E)) (Serial No.: C60701001 - 01300 (TD-700D))	1					
36	OJ04886B	Tuner P.C.B. Insulator	1					

7.2. Front Panel Ass'y (A01)

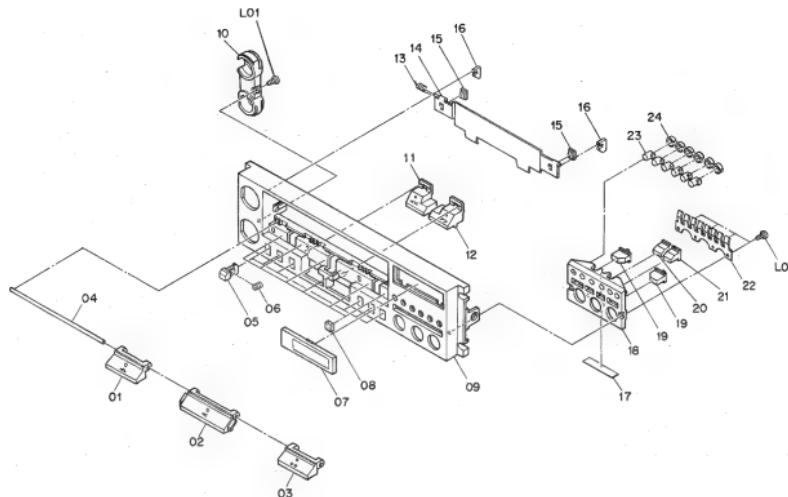


Fig. 7.2

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A01	HA04775A	Front Panel Ass'y TD-700	1	A01	HA04677C	Front Panel Ass'y TD-700	1
02	HA04708A	Play Button Ass'y	1	02	HA04708A	Play Button Ass'y	1
03	HA04710A	Pause Button Ass'y	1	03	HA04710A	Pause Button Ass'y	1
04	0J04849A	Shaft	1	04	0J04849A	Shaft	1
05	HA04788A	Push Button Ass'y	6	05	HA04788A	Push Button Ass'y	6
06	0J04849A	Push Button Spring	6	06	0J04849A	Push Button Spring	6
07	0H04460B	LCD Lens	1	07	0H04460A	LCD Lens	1
08	0H04878A	Cushion	6	08	0J04878A	Cushion	6
09	0H04472C	Front Panel	1	09	0H04472C	Front Panel	1
10	0H04462B	Illuminator C	1	10	0H04462B	Illuminator C	1
11	HA04711A	Play Button Ass'y	1	11	HA04711A	Play Button Ass'y	1
12	HA04711A	Rewind Button Ass'y	1	12	HA04711A	Rewind Button Ass'y	1
13	0J04850B	Spring	1	13	0J04850B	Spring	1
14	0H04491C	Tape Slot Cover TD-700	1	14	0H04491C	Tape Slot Cover TD-700	1
	0H04503C	Tape Slot Cover TD-700E	1		0H04503C	Tape Slot Cover TD-700E	1
	0H04508C	Tape Slot Cover TD-700D	1		0H04508C	Tape Slot Cover TD-700D	1
15	0H04463C	Tape Slot Cover Protector	2	15	0H04463C	Tape Slot Cover Protector	2
16	0J04892A	Guide	2	16	0J04892A	Guide	2
17	0H04891A	Sheet	1	17	0J04891A	Sheet	1
18	0H04469B	Illuminator D	1	18	0H04469A	Illuminator D	1
19	0H04483A	Up/Down Button	2	19	0H04483A	Up/Down Button	2
20	0H04482A	Scan Button	1	20	0H04482A	Scan Button	1
21	0H04480A	Memory Button	1	21	0H04480A	Memory Button	1
22	0J04848A	Button Spring	1	22	0J04848A	Button Spring	1
23	0H04473A	Station Button	6	23	0J04848A	Station Button	6
24	0J04846B	Reflector	6	24	0J04846B	Reflector	6
L01	0E00961A	BT2x5 © Binding	5	L01	0E00961A	BT2x5 © Binding	5

7.3. Transport Mechanism Ass'y (A02)

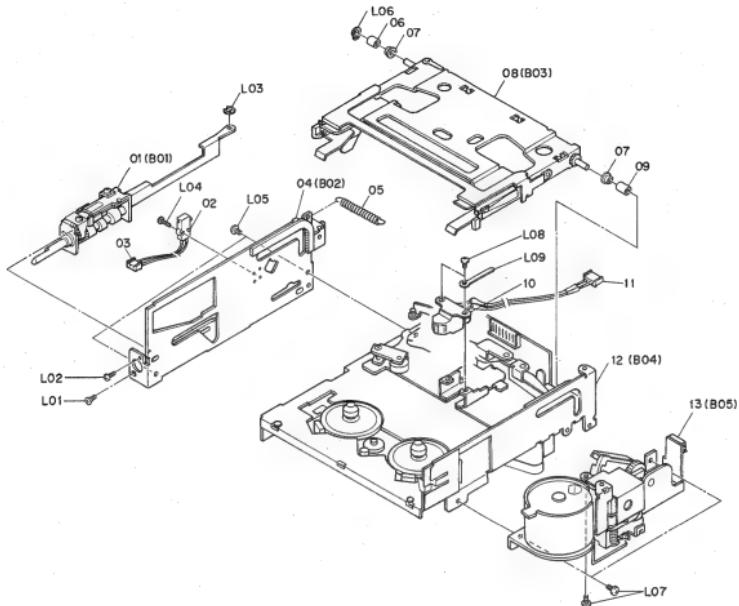


Fig. 7.3

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A02	CA08716A	Transport Mechanism Ass'y Serial No.: C60501001 - 03398 C60701001 - 01250	1	A02	CA08661B	Transport Mechanism Ass'y Serial No.: C60501001 - 03398 C60701001 - 01250	1
01	CA08687A	Azimuth Controller Ass'y	1	01	CA08687A	Azimuth Controller Ass'y	1
02	OB70028A	Eject Switch	1	02	OB70028A	Eject Switch	1
03	OB82299B	2P Coupler	1	03	OB82299B	2P Coupler	1
04	CA08686A	Side Chassis Ass'y	1	04	CA08686A	Side Chassis Ass'y	1
05	OC08798A	Side Chassis Sub Ass'y	1	05	OC08798A	Side Chassis Sub Ass'y	1
06	OC08799A	Guide Collar A	1	06	OC08799A	Guide Collar B	1
07	OC08797A	Guide Roller A	2	07	OC08797A	Guide Roller A	1
08	CA08665A	Cassette Holder Ass'y	1	08	CA08665A	Cassette Holder Ass'y	1
09	OC08798A	Guide Collar C	1	09	OC08798A	Guide Collar C	1
10	GA02203B	P2C-3L Playback Head	1	10	GA02203B	P2C-3L Playback Head	1
11	OB82302A	4P-H Connector	1	11	OB82302A	4P-H Connector	1
12	CA08717A	Transport Mechanism Sub Ass'y	1	12	CA08663A	Transport Mechanism Sub Ass'y	1
13	CA08667A	Loading Mechanism Ass'y	1	13	CA08667A	Loading Mechanism Ass'y	1
L01	OE03189A	M2x3 ② Countersunk (Black Chromate)	1	L01	OE03189A	M2x3 ② Countersunk (Black Chromate)	1
L02	OE03216A	M1.4x2.5 ⑤ Pan (Black Chromate)	1	L02	OE03216A	M1.4x2.5 ⑤ Pan (Black Chromate)	1
L03	OE00222A	E-Ring 2mm	1	L03	OE00222A	E-Ring 2mm	1
L04	OE03185A	M1.7x6 ② Pan	1	L04	OE03185A	M1.7x6 ② Pan	1
L05	OE03186A	M2.6x2.8 ② Pan (Black Chromate)	2	L05	OE03186A	M2.6x2.8 ② Pan (Black Chromate)	2
L06	OE00839A	Grip 2.5mm	1	L06	OE00839A	Grip 2.5mm	1
L07	OE00120A	M2.6x3 ② Pan (Black Chromate)	3	L07	OE00120A	M2.6x3 ② Pan (Black Chromate)	3
L08	OE00783A	M2x3 ② Pan (Black Chromate)	2	L08	OE00783A	M2x3 ② Pan (Black Chromate)	2
L09	OC08858A	Wire Clamp	1	L09	OC08858A	Wire Clamp	1

7.4. Azimuth Controller Ass'y (B01)

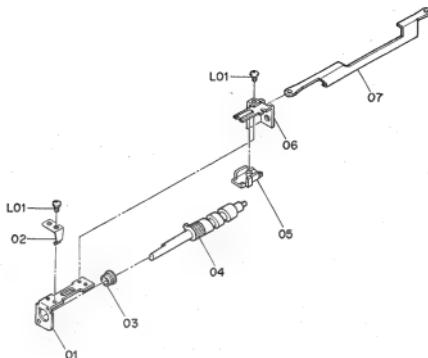


Fig. 7.4

7.5. Side Chassis Ass'y (B02)

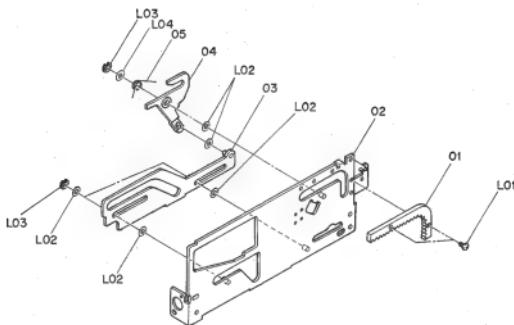


Fig. 7.5

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B01	CA08687A	Azimuth Controller Ass'y Serial No.: C60501001 - C60701001	1	B02	CA08686A	Side Chassis Ass'y Serial No.: C60501001 - C60701001	1
01	OC08850B	Azimuth Cam Holder A	1	01	OC08828B	Rack Rail L	
02	OC08856A	Plate Spring	1	02	CA08685A	Side Chassis L Ass'y	1
03	OC08896A	Cam Holder	1	03	CA08643B	G-Shaped Plate Ass'y	1
04	OC08877B	Azimuth Cam B	1	04	CA08643A	Slide Arm Ass'y	1
05	OC08851A	Joint Bar	1	05	OE03187A	Joint Bar	1
06	OC08851B	Azimuth Cam Holder B	1	L01	OE03183A	M1.7x2.2 Ø Pan (Black Chromate)	2
07	OC08853A	Joint Bar	1	L02	OE03062A	Mylar Washer 2.6mm 2.6x0.25	2
L01	OE00922A	M2x3 Ø Pan (Black Chromate)	2	L03	OE00222A	E-Ring 2mm	3
				L04	OE03180A	Mylar Washer 2.6mm 2.6x0.25	1

7.6. Cassette Holder Ass'y (B03)

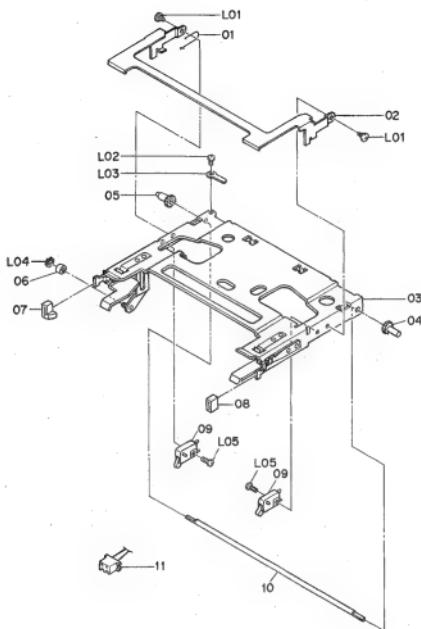


Fig. 7.6

Schematic Ref. No.	Part No.	Description	Q'ty
B03	CA08665A	Cassette Holder Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08890C	Plate Spring	1
02	OC08860F	Plate	1
03	CA08674D	Cassette Holder Sub Ass'y	1
04	OC08847A	Pinion Gear	1
05	OC08846A	Pinion Gear L	1
06	OC088786A	Roller 1.4x2.5	1
07	OC088786A	Gear Guide L	1
08	OC08887B	Cassette Guide R	1
09	OB70001A	Leaf Switch	1
10	OC08800B	Pinion Shaft	2
11	OB82301A	2P Coupler	1
L01	OE03208A	M1.4x2.55 \oplus	2
L02	OE03190A	ST1.7x3 \oplus Pan (Black Chromate)	1
L03	OE03190A	Earth Lut 2mm	1
L04	OE00165A	E-Ring 1.2mm	1
L05	OE03184A	M1.7x5.5 \oplus Pan (Black Chromate)	2

7.7. Transport Mechanism Sub Ass'y (B04)

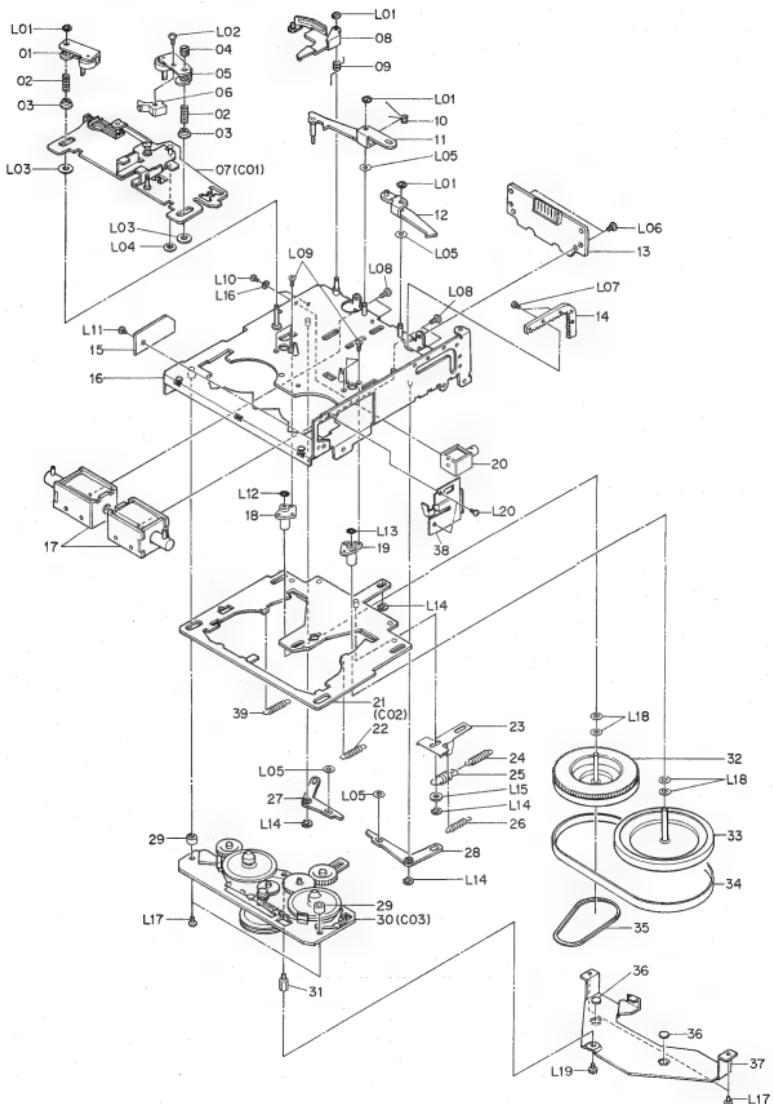


Fig. 7.7

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
BO4	CA08717A	Transport Mechanism Sub Ass'y	1	BO4	CA08665A	Transport Mechanism Sub Ass'y	1
		Serial No.: C605010339 -				Serial No.: C60501001 - 03398	1
		C60701251 -				C607012001 - 01250	
01	CA08617B	Take-up Pressure Roller Arm Sub Ass'y	1	01	CA08617B	Take-up Pressure Roller Arm Sub Ass'y	1
02	OC08878A	Pressure Roller Adjust Spring	2	02	OC08878A	Pressure Roller Adjust Spring	2
03	OC08891A	Roller Arm Sleeve	2	03	OC08891A	Roller Arm Sleeve	2
04	OC08694A	Pressure Roller Height Adjust Nut	1	04	OC08694A	Pressure Roller Height Adjust Nut	1
05	CA08618A	Supply Pressure Roller Arm Sub Ass'y	1	05	CA08618A	Supply Pressure Roller Arm Sub Ass'y	1
06	OC08756A	Tape Guide	1	06	OC08756A	Tape Guide	1
07	CA08679A	Head Slider Ass'y	1	07	CA08679A	Head Slider Ass'y	1
08	CA08656A	Azimuth Arm Ass'y	1	08	CA08656A	Azimuth Arm Ass'y	1
09	OC08891A	Azimuth Arm Spring	1	09	OC08891A	Azimuth Arm Spring	1
10	OC08892A	Play Lock Plate Ass'y	1	10	OC08892A	Play Lock Plate Ass'y	1
11	CA08622D	Play Lock Plate Ass'y	1	11	CA08622D	Play Lock Plate Ass'y	1
12	CA08623C	Rew Lock Plate Ass'y	1	12	CA08623C	Rew Lock Plate Ass'y	1
13	BA05430A	Solenoid P.C.B. Ass'y	1	13	BA05430A	Solenoid P.C.B. Ass'y	1
14	OC08829A	Rack Gear R	1	14	OC08829A	Rack Gear R	1
15	OC08817B	Guide Plate	1	15	OC08817B	Guide Plate	1
16	CA08657F	Mechanism Chassis Ass'y	1	16	CA08657F	Mechanism Chassis Ass'y	1
17	OC08890B	Main Solenoid G-325	2	17	OC08890B	Main Solenoid G-325	2
18	CA08629A	Take-up Flange Metal Ass'y	1	18	CA08629A	Take-up Flange Metal Ass'y	1
19	CA08630A	Supply Flange Metal Ass'y	1	19	CA08630A	Supply Flange Metal Ass'y	1
20	OB90028B	Lock Solenoid G-413	1	20	OB90028B	Lock Solenoid G-413	1
21	CA08672B	Master Plate Ass'y	1	21	CA08672B	Master Plate Ass'y	1
22	OC08854A	Pressure Roller Spring	1	22	OC08854A	Pressure Roller Spring	1
23	OC08679D	Centering Plate	1	23	OC08679D	Centering Plate	1
24	OC08851B	Centering Plate Spring	1	24	OC08851B	Centering Plate Spring	1
25	OC08890B	Head Base Spring	1	25	OC08890B	Head Base Spring	1
26	OC08877A	Centering Spring	1	26	OC08877A	Centering Spring	1
27	CA08612B	Solenoid Arm L Ass'y	1	27	CA08612B	Solenoid Arm L Ass'y	1
28	CA08613B	Solenoid Arm R Ass'y	1	28	CA08613B	Solenoid Arm R Ass'y	1
29	OC08703A	Slide Base Collar	2	29	OC08703A	Slide Base Collar	1
30	CA08713A	Reel Mechanism Ass'y	1	30	CA08671A	Reel Mechanism Ass'y	1
31	OC08807A	Thrust Stud	1	31	OC08807A	Thrust Stud	1
32	OC08998A	Take-up Flywheel Ass'y	1	32	OC08998A	Take-up Flywheel Ass'y	1
33	CA08610B	Supply Flywheel Ass'y	1	33	CA08609C	Take-up Flywheel Ass'y	1
34	OC08781A	Capstan Belt	1	34	OC08781A	Capstan Belt	1
35	OC08783A	V. Pulley Belt	1	35	OC08783A	V. Pulley Belt	1
36	OC08692A	Thrust Plate	2	36	OC08692A	Thrust Plate	1
37	OC08752B	Flywheel Plate B	1	37	OC08752B	Flywheel Plate B	1
38	OC08752B	Counter Plate	1	38	OC08752B	Counter Plate	1
39	OC08998A	Take-up Pressure Roller Spring	1	39	OC08998A	Take-up Pressure Roller Spring	1
L01	OE00042A	E-Ring 1.5mm	4	L01	OE00042A	E-Ring 1.5mm	4
L02	OE00841A	BT2x4 ⓁPan	1	L02	OE00841A	BT2x4 ⓁPan	2
L03	OC08826C	Slide Washer A	2	L03	OC08826C	Slide Washer A	2
L04	OC08827B	Slide Washer B	1	L04	OC08827B	Slide Washer B	1
L05	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	4	L05	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	4
L06	OE03197A	Mylar Washer 2.6mm 2.6x5x0.125	4	L06	OE03197A	Mylar Washer 2.6mm 2.6x5x0.125	4
L07	OE03180A	M1.6x3 Ⓛ Pan (Black Chromate)	2	L07	OE03180A	M1.6x3 Ⓛ Pan (Black Chromate)	2
L08	OE03241A	M3x4 Ⓛ Binding	4	L08	OE03241A	M3x4 Ⓛ Binding	4
L09	OE03189A	M2x3 Ⓛ Countersunk (Black Chromate)	6	L09	OE03189A	M2x3 Ⓛ Countersunk (Black Chromate)	6
L10	OE03246A	M1.6x3 Ⓛ Pan (Black Chromate)	2	L10	OE03246A	M1.6x3 Ⓛ Pan (Black Chromate)	2
L11	OE03186A	M2.6x2.8 Ⓛ Pan (Black Chromate)	1	L11	OE03186A	M2.6x2.8 Ⓛ Pan (Black Chromate)	1
L12	OE03200A	Nylon Washer 2mm 2.0x3.5x0.13	1	L12	OE03200A	Nylon Washer 2mm 2.0x3.5x0.13	1
L13	OE03201A	Nylon Washer 2.3mm 2.3x3.5x0.13	1	L13	OE03201A	Nylon Washer 2.3mm 2.3x3.5x0.13	1
L14	OE00222A	E-Ring 2mm	4	L14	OE00222A	E-Ring 2mm	4
L15	OE03206A	Nylon Washer 3.1x6x0.5	1	L15	OE03206A	Nylon Washer 3.1x6x0.5	1
L16	OE03199A	Washer 1.8x3.8x0.3 (Nickel)	2	L16	OE03199A	Washer 1.8x3.8x0.3 (Nickel)	2
L17	OE00120A	M2.6x3 Ⓛ Pan	4	L17	OE00120A	M2.6x3 Ⓛ Pan	4
L18	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	4	L18	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	4
L19	OE03242A	M2.6x3 Hex. Socket Head	1	L19	OE03242A	M2.6x3 Hex. Socket Head	1
L20	OE03243A	M2x2.5 Ⓛ Pan	2	L20	OE03243A	M2x2.5 Ⓛ Pan	2

7.8. Loading Mechanism Ass'y (B05)

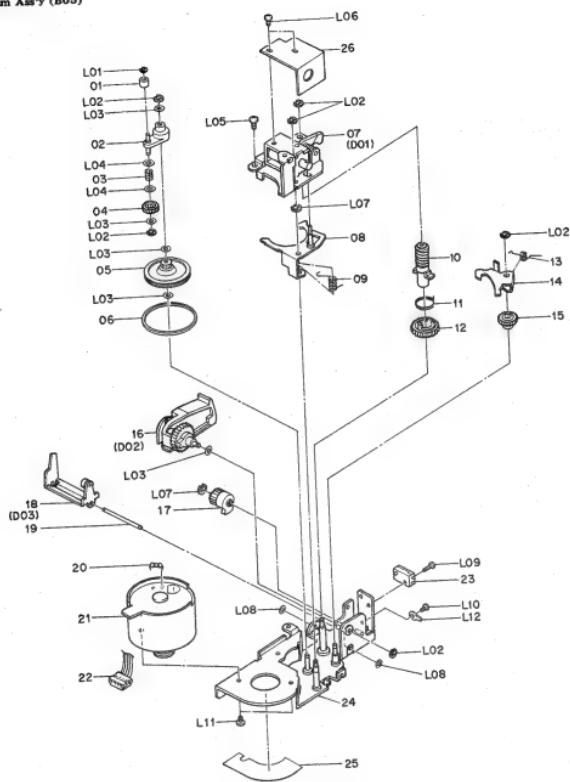


Fig. 7.8

Schematic Ref. No.	Part No.	Description	Q'ty
B05	CA08667A	Loading Mechanism Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08612A	Idle Roller L	1
02	CA08651B	P Arm L Ass'y	1
03	OC08872A	Function Spring	1
04	OC08840A	Idle Gear L	1
05	OC08842B	Loading Pulley	1
06	OC08784B	Loading Belt	1
07	CA08677A	Solenoid Plate Ass'y	1
08	CA08678B	Elect. Arm Ass'y	1
09	OC08874A	Select Arm Spring	1
10	OC08844C	Worm Gear	1
11	OC08873B	Flexible Spring	1
12	OC08839B	Loading Gear A	1
13	OC08871A	Loading Arm Spring C	1
14	OC08831B	Loading Arm C	1
15	OC08831C	End Gear	1
16	CA08675A	Loading Arm Ass'y	1
17	OC08792B	Head Base Cam Gear	1
18	CA08676A	Head Base Arm Ass'y	1
19	OC08793A	Head Base Arm Shaft	1
20	OB09629A	Carbon Resistor 10K 1.6W J	1
21	CA08652B	Main Motor Ass'y	1
22	OC08830A	DC Controller	1
23	OB70001A	Loading Switch	1
24	CA08653C	Motor Chassis Ass'y	1
25	OJ04893A	Tone Volume Insulator	1
26	OC08893B	Solenoid Protector	1
L01	OE03182A	E-Ring 0.8mm	1
L02	OE00042A	E-Ring 1.5mm	6
L03	OE03061A	Mylar Washer 3.1mm 2.1x4x0.25	5
L04	OE08209A	Mylar Washer 3.1mm 3.1x4.9x0.125	2
L05	OE00022A	M2.6x4 8 Pan	1
L06	OE00022A	M2x3 8 Pan	2
L07	OE00022A	E-Ring 2mm	2
L08	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	2
L09	OE03182A	(Black Chromate)	1
L10	OE03183A	M1.7x2.2 8 Pan (Black Chromate)	1
L11	OE03186A	M2.6x2.8 8 Pan (Black Chromate)	2
L12	OE00905A	Earth Lug B	1
C01	CA08679A	Head Slider Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08879A	Head Hold Spring	1
02	OC08688B	Azimuth Screw	1
03	OC08749B	Head Mount Plate	1
04	OC08466A	Slide Cam Spring	1
05	OC08708A	Azimuth Adjust Plate	1
06	CA08651D	Head Base Ass'y	1
L01	OE00042A	E-Ring 1.5mm	1
L02	OE03191A	Washer 2.5mm 2.5x6.5x0.5	2
L03	OE03272A	PL1.7x3.5 8 Pan	1
C02	CA08678A	Master Plate Ass'y Serial No.: C60501001 - C60701001 -	1
01	CA08632E	Control Plate Ass'y	1
02	CA08615A	RF Selector Arm R Ass'y	1
03	CA08614A	RF Selector Arm L Ass'y	1
04	OC08705A	Drive Pin	1
05	OC08678A	RF Selector Plate	1
06	OC08882A	FF Limiter Spring	1
L01	OE00222A	E-Ring	2
L02	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	2
L03	OE00042A	E-Ring 1.6mm	1

7.9. Head Slider Ass'y (C01)

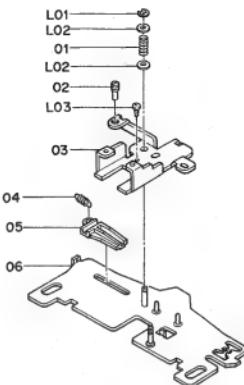


Fig. 7.9

7.10. Master Plate Ass'y (C02)

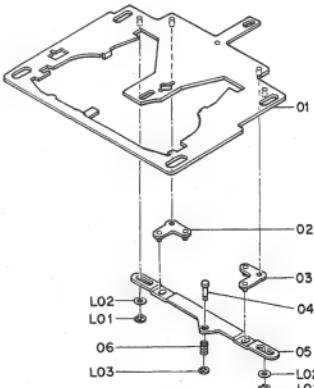


Fig. 7.10

7.11. Reel Mechanism Ass'y (C03)

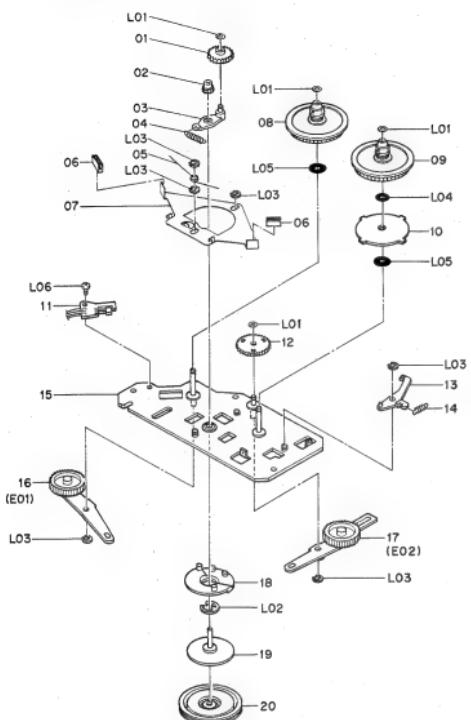


Fig. 7.11

7.12. Solenoid Plate Ass'y (D01)

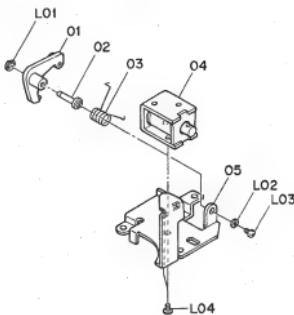


Fig. 7.12

7.13. Loading Arm Ass'y (D02)

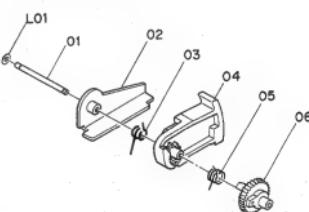


Fig. 7.13

7.14. Head Base Arm Ass'y (D03)

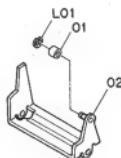


Fig. 7.14

7.15. FF Arm Ass'y (E01)

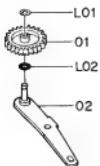


Fig. 7.15

7.16. Rewind Arm Ass'y (E02)

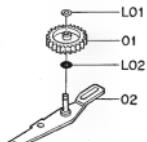


Fig. 7.16

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
C03	CA08718A	Reel Mechanism Ass'y Serial No.: C60503399 - C60701251 -	1	D01	CA08677A	Solenoid Plate Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08727A	Idler Gear	1	01	OC08634B	Stop Arm L	1
02	OC08675B	Pinion Gear	1	02	OC08645A	Stop Arm Shaft	1
03	CA08627B	Pivot Suspension Arm Ass'y	1	03	OC08875A	Stop Arm Spring	1
04	OC08866A	Pivot Suspension Arm Spring	1	04	OB09029A	Eject Solenoid	1
05	OC08864B	Brake Spring	1	05	OC08833A	Solenoid Plate	1
06	OC08690A	Brake Shoe	2	L01	OE00222A	E-Ring 2mm	1
07	OC08729B	RF Plate	1	L02	OE03199A	Washer 1.8mm	1
08	CA08640F	Take-up Reel Hub Ass'y	1	L03	OE03183A	M1.7x1.2 @Pan (Black Chromate)	1
09	CA08641F	Supply Reel Hub Ass'y	1	L04	OE00922A	M2x3 @Pan (Black Chromate)	2
10	OC08742A	Back Tension Disc	1	D02	CA08675A	Loading Arm Ass'y Serial No.: C60501001 - C60701001 -	1
11	BA05614B	Shut-off P.C.B. Ass'y	1	01	OC08705B	Main Shaft L	1
12	OC08729B	Idler Gear	1	02	CA08645A	Stop Arm B Ass'y	1
13	OC08709A	Back Tension Arm	1	03	OC08870A	Loading Arm Spring B	1
14	OC08665A	Back Tension Arm Spring	1	04	OC08801B	Loading Arm A	1
15	CA08640F	Reel Chassis Ass'y	1	05	OC08869C	Loading Arm Spring A	1
16	CA08671A	FF Arm Ass'y	1	06	OC08791B	Loading Gear B	1
17	CA08671A	Rewind Arm Ass'y	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
18	OC08778A	FR Drum	1	D03	CA08676A	Head Base Arm Ass'y Serial No.: C60501001 - C60701001 -	1
19	CA08631A	Clutch Disc Ass'y	1	01	OC08786A	Roller 1.5x4x2.5	1
20	CA08673A	Magnet Clutch Pulley Ass'y	1	02	CA08642B	Head Base Arm Sub Ass'y	1
L01	OE00104A	Back Tension Arm	1	L01	OE00165A	E-Ring 1.2mm	1
L02	OE00042A	Back Tension Arm	1	E01	CA08672A	FF Arm Ass'y Serial No.: C60501001 - C60701001 -	1
L03	OE03195A	Reel Chassis Ass'y	1	01	OC08731A	F Idler A	1
L04	OE03193A	FF Arm Ass'y	1	02	CA08626C	FF Arm Sub Ass'y	1
L05	OE03193A	Rewind Arm Ass'y	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
L06	OE00922A	FR Drum	1	L02	OE03187A	Nylon Washer FT20 2.1x4.0x0.25	1
C03	CA08670A	Reel Mechanism Ass'y Serial No.: C60501001 - 03398 C60701001 - 01250	1	E02	CA08671A	Rewind Arm Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08727A	Idler Gear	1	01	OC08731A	F Idler A	1
02	OC08676B	Pinion Gear	1	02	CA08624B	Head Base Arm Sub Ass'y	1
03	CA08627B	Pivot Suspension Arm Ass'y	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
04	OC08866A	Pivot Suspension Arm Spring	1	L02	OE03187A	Nylon Washer FT20 2.1x4.0x0.25	1
05	OC08864B	Brake Spring	1				
06	OC08690A	Brake Shoe	1				
07	OC08723B	RF Plate	1				
08	CA08630F	Take-up Reel Hub Ass'y	1				
09	CA08641F	Supply Reel Hub Ass'y	1				
10	OC08742A	Back Tension Disc	1				
11	BA05429A	Shut-off P.C.B. Ass'y	1				
12	OC08729B	Idler Gear	1				
13	OC08709A	Back Tension Arm	1				
14	OC08865A	Back Tension Arm Spring	1				
15	CA08634D	Reel Chassis Ass'y	1				
16	CA08672A	FF Arm Ass'y	1				
17	CA08671A	Rewind Arm Ass'y	1				
18	OC08778A	FR Drum	1				
19	CA08631A	Clutch Disc Ass'y	1				
20	CA08673A	Magnet Clutch Pulley Ass'y	1				
L01	OE00104A	Back Tension Arm	1				
L02	OE00042A	Back Tension Arm	1				
L03	OE03195A	Reel Chassis Ass'y	1				
L04	OE03193A	FF Arm Ass'y	1				
L05	OE03193A	Rewind Arm Ass'y	1				
L06	OE00922A	FR Drum	1				

8. MOUNTING DIAGRAMS AND PARTS LIST

Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.
2. Diode is MA221 or RLS-73 unless otherwise specified.
3. Following transistors are interchangeable with each other.
 2SC945. 2SC536SP. 2SC2458. 2SC2785

4. Abbreviation for part name:

TR = Transistor, SiD = Silicon Diode, ZD = Zener Diode

TR = Transistor, SD = Silicon Diode, ZD = Zener Diode
RK = Carbon Resistor, RM = Metal Film Resistor, BF = Bias

RR - Carbon Resistor, RM - Metal Film Resistor, RC - Pan-Silicon Type Resistor
 CE - Electrolytic Capacitor, CM - Mylar Capacitor, CC - Ceramic Capacitor, CP - PP Capacitor,
 CT - Tantalum Capacitor

8.1. Line Filter P.C.B. Ass'y

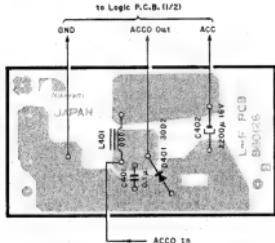


Fig. 8.1

8.2. Transistor P.C.B. Ass'y

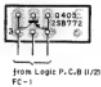


Fig. 8.2

8.3. Shut-off P.C.B. Ass'y



Fig. 8.3

8.4. Lamp P.C.B. Ass'y

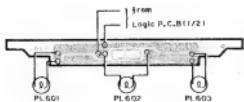


Fig. 8.4

8.5. Solenoid P.C.B. Ass'y

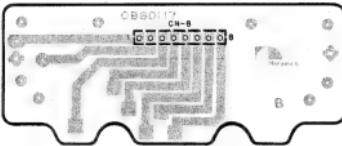


Fig. 8.5

Schematic Ref. No.	Part No.	Description
D401 L401 C401 C402	BA05501A	Lime Filter F.C.B. Ass'y
	OB06126B	Lime Filter P.C.B. S/D 30D-2
	OB06458A	Choke Coll CC 22000 50V Z
	OB06707A	22000 16V
	OB09854A	GND Cable (1)
Q405 FC1	OB08068B	ACB Cable (1)
	OB08069A	SK Binder (2)
	OB09019A	
	BA05497A	Transistor P.C.B. Ass'y
	OB06123A	Transistor P.C.B., TR. 2SB772 (P.Q.)
IC604 CN9	OB06303A	Flat Cable 3P 120mm
	OB23464A	Wire Holder (1)
	QJ04855B	Nut Hex. M8 (1)
	OE000507A	C6338 x 8 Pan (2A)
	OE000510A	(1)
IC604 CN9	BA05614B	Shut-off F.C.B., Ass'y
	OB06103B	Serial No.:
	OB11062A	C650503399 - C670701251 -
IC604 CP3	OB28358A	
	OB06103A	Shut-off P.C.B., Hall IC DN6838
	OB11062A	3P-H Connector 50mm
IC604 CP3	OB82297H	
	BA05429A	Shut-off P.C.B., Ass'y
	OB06103A	Serial No.:
PL601,602 603	OB11062A	C650501001 - 03398
	OB82297H	C670701001 - 01250
	OB06121A	
CN8	OB90030A	Shut-off P.C.B., Hall IC DN6838
	OB04670B	3P Coupler (1)
	BA05484A	Lamp P.C.B Ass'y
CN8	OB06121A	Lamp P.C.B.,
	OB90030A	Lamp 65mA 14V
	OB04670B	Illuminator B (1)
CN8	BA05430A	Solenoid P.C.B. Ass'y
	OB06117B	Solenoid P.C.B.,
	OB81042A	8-Ps Post

8.6. Buffer Amp. P.C.B. Ass'y

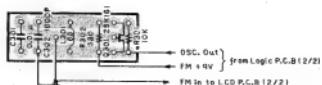


Fig. 8.6

8.7. Control P.C.B. Ass'y

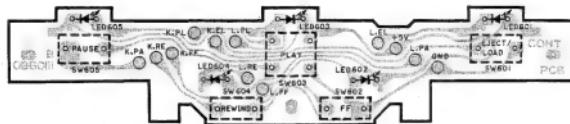


Fig. 8.7

8.8. Volume P.C.B. Ass'y

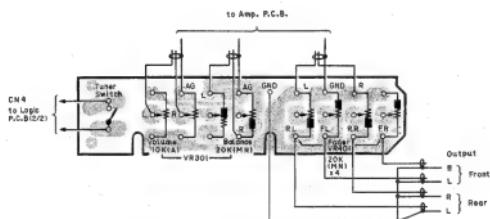


Fig. 8.8

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05516A	Buffer Amp. P.C.B. Ass'y (except for Japan)		BA05422A	Volume P.C.B. Ass'y TD-700 & TD-700E
Q301	OB60132A	Buffer Amp. P.C.B.	BA05466A	BA05466A	Volume P.C.B. Ass'y TD-700D
	OB60461A	FET 2SK161	OB60115A	Volume P.C.B.	
L301	OB51198A	RF Coil	OB30011A	12mm	
R301	OB09701A	RK 10W 1/6W J	OB82305A	2P-H Connector	
R302	OB09665A	RK 330 1/6W J	OB81269B	Pin Jack Cable BLK	
C301	OB41019A	CC 0.01u 25V			TD-700 & TD-700E
C302	OB41007A	CC 1000P 25V	OB81280A	Pin Jack Cable GRAY	(1)
			OB81275B	Socket 7P TD-700D	(1)
LED601-605	BA05415A	Control P.C.B. Ass'y	OB03123A	Earth Lug M2.6	(1)
SW601,602	OB60111B	Control P.C.B.	OB80078B	Shield Wire A (Yellow)	(1)
604,605	OB12215A	LED SLP202C Green	OB80079B	Shield Wire B (Red)	(1)
SW603	OB70020A	Tact Switch	OB80080B	Shield Wire C (Black)	(1)
	OB70032A	Tact Switch			
	OJ04845A	Reflector A (5)			

8.9. Tone Volume P.C.B. Ass'y

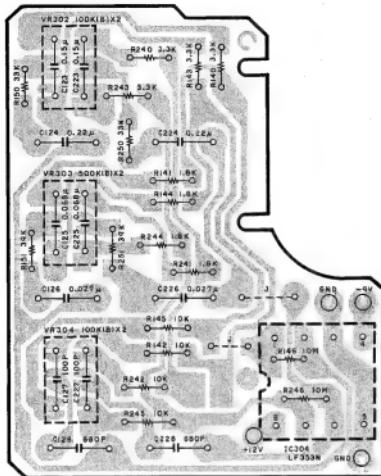


Fig. 8.9.1 C60503551 - (TD-700 & TD-700E)
C60701301 - (TD-700D)

Schematic Ref. No.	Part No.	Description
	BA05613A	Tone Volume P.C.B. Ass'y
		Serial No.: C60503551 - C60701301 -
	0B60114C 0B11185A	Tone Volume P.C.B. IC LF352N (Low Noise)
IC304	0B30012A 0B30013A R140,143 240,243 R141,144 242,243 R142,145 242,245 R146,246 R150,250 R151,251 C123,223 C124,224 C125,225 C126,226 C127,227 C128,228 CP1 CP2	VR 100K (B)x2 VR 500K (B)x2 TR 3.3K 1/8W J RK 1.8K 1/8W J RK 10K 1/8W J RK 10M 1/8W J RK 35K 1/8W J RK 100K 1/8W J CM 0.15u 50V J CM 0.22u 50V J CM 0.068u 50V J CM 0.027u 50V J CP 100P 100V J CP 680P 100V G SP Coupler 2P Coupler Tone V. volume Holder (1)
	BA05421A	Tone Volume P.C.B. Ass'y
		Serial No.: C60501001 - 08550 C60701001 - 01300
	0B60114C 0B11102A VR302,304 VR303 R140,143 240,243 R141,144 242,245 R142,145 242,245 R146,246 R150,250 R151,251 C123,223 C124,224 C125,225 C126,226 C127,227 C128,228 CP1 CP2	Tone Volume P.C.B. IC LF352N VR 100K (B)x2 VR 500K (B)x2 RK 1K 1/8W J RK 680 1/8W J RK 6.8K 1/8W J RK 1M 1/8W J RK 39K 1/8W J RK 35K 1/8W J CM 0.15u 50V J CM 0.15u 50V J CM 0.22u 50V J CM 0.022u 50V J CP 330P 100V J CP 680P 100V G SP Coupler 2P Coupler Band EG-9 Holder (1)

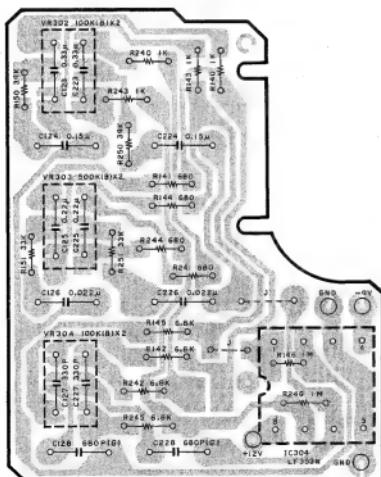


Fig. 8.9.2 C60501001 - 03550 (TD-700 & TD-700E)
C60701001 - 01300 (TD-700D)

8.10. Motor P.C.B. Ass'y

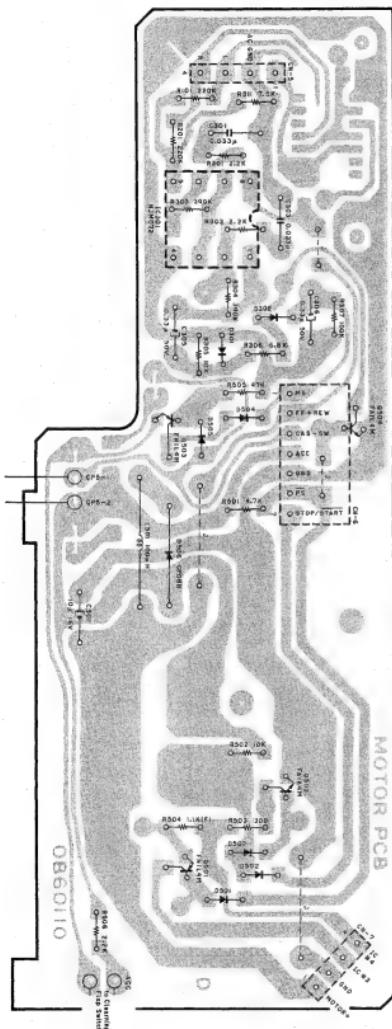


Fig. 8.10

Schematic Ref. No.	Part No.	Description
	BA05414B	Motor P.C.B. Ass'y
IC301	OB60110D	Motor P.C.B.
Q501,503	OB61457A	IC NJM072
Q502	OB14151A	TR FNL14M
Q504	OB14144A	TR FA1A4M
D301,302	OB14146A	TR FAIL4M
501,502	OB13064A	SID MA221
503,504		
505		
D506	OB06109A	SID GP08B
L508	OB23120A	Micro Controller
R101,201	OB23120A	TR 2.99K 1/SW J
R301,302	OB23081A	TR 2.2K 1/SW J
606		
R303,304	OB23135A	RK 390K 1/SW J
R305,502	OB23097A	RK 10K 1/SW J
E306	OB23093A	RK 6.8K 1/SW J
E307	OB23094A	RK 10K 1/SW J
R311	OB23094A	RK 7.5K 1/SW J
R501	OB23089A	RK 4.7K 1/SW J
R503	OB23060A	RK 300 1/SW J
R504	OB26011A	RM 1.1K 1/SW F
E505	OB23084A	RM 4.7K 1/SW J
C301,303	OB05583A	CM 0.033u 50V
C305,306	OB40209A	CE 0.33u 50V
C501	OB40162A	CE 10u 16V
CN5	OB81231A	4P-T Post
CN6	OB81041A	7P-S Post
CN7	OB81027A	4P-T Post
CP5	OB82300A	2P Coupler

8.11. Tuner P.C.B. Ass'y
(1) For TD-700
(U.S.A. & Canada)

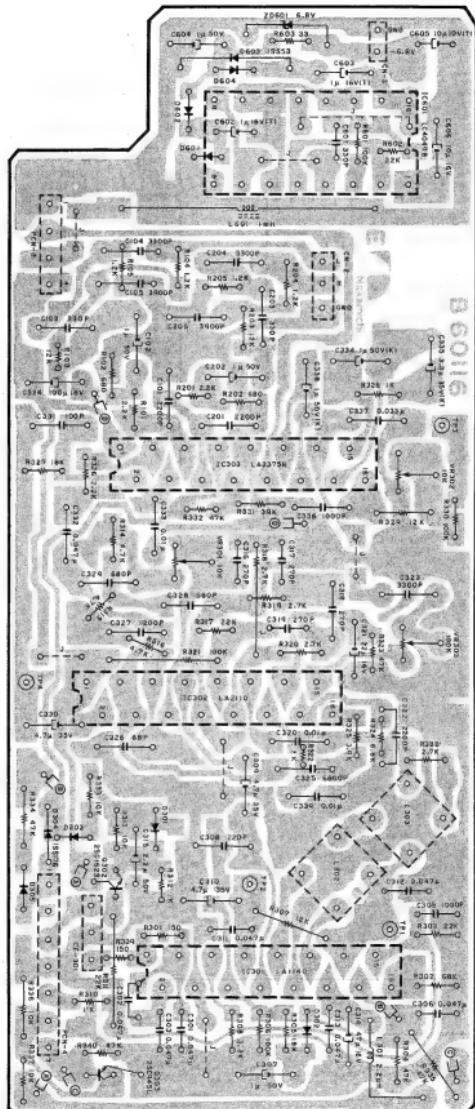


Fig. 8.11.1

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA054241	Tuner P.C.B. Ass'y TD-700 (U.S.A. & Canada)	C226 C227 C228,329 C231 C232	OB41191A OB05687A OB05686A OB41386A OB05796A	C 68P 100V J CM 1200P 50V J CM 100P 50V J 100P 50V J
IC301	OB06116E	Tuner P.C.B.	C334,338	OB40263A	CE 1u 50V K
IC302	OB06412A	IC LA1140	C335	OB40264A	CE 3.3u 35V K
IC303	OB06414A	IC LA2110	C336	OB41225A	CP 1000P 100V J
IC304	OB06415B	IC LA375N	C337	OB05683A	CM 0.047u 50V J
IC305	OB11066A	IC LC4002B	C338	OB40265A	CE 0.039P 50V K
Q306	OB01872A	TR 2SC945L (P,Q)	C601	OB43025A	CT 1u 16V
Q308	OB01872A	TR 2SC945L (P,Q)	C602	OB43020A	CT 10u 10V
ZD601	OB06241A	ZD 6.8V RD6.8EB2	C605	OB40162A	CE 10u 16V
D301,302	OB13064A	SID MA221	C606	OB41076A	Ceramic Filter
303,601			CF301		SFE10.7MS3GKY
602					
D304	OB06398A	SID 1SS176	CN3	OB81036A	2P-8 Pin (1)
D305,604	OB13003A	SID RLS-73	PCN2	OB81283A	SP-S Post (1)
D603	OB06181A	SID 1SS53	PCN3	OB82288A	4P Connector (1)
L301	OB51106A	Micro Coil 2.2uH	PCN4	OB82289A	TP Connector (1)
L302	OB51142A	Det. Coil 57-1291-01		OE00764A	M2.6x6 8 Pan (2A)
L303	OB06712A	Det. Coil 67-1057-01		0J04869A	F.C.B. Holder Stud (1)
L601	OB51040A	Micro Coil 1mH		OB81117A	Contact Pin 1P (4)
VR301,302	OB32035A	Potentiometer 10K		0J04871B	Shield Case (1)
VR303	OB32038A	Potentiometer 100K			
R101,201	OB23081A	RK 2.2K 1/8W J			
302					
R102,202	OB23069A	RK 680 1/8W J			
R103,203	OB23098A	RK 12K 1/8W J			
R104,105	OB23075A	RK 12K 1/8W J			
204,205					
R301,339	OB23053A	RK 150 1/8W J			
R302,311	OB23117A	RK 68K 1/8W J			
R303,317	OB23106A	RK 22K 1/8W J			
305,317					
602					
R304,323	OB23113A	RK 47K 1/8W J			
332,334					
340					
R305,327	OB23103A	RK 18K 1/8W J			
R306,330	OB23121A	RK 100K 1/8W J			
601					
R307	OB06560A	RK 12K 1/4W VJ			
R308	OB23085A	RK 3.3K 1/8W J			
R309	OB23101A	RK 15K 1/8W J			
R310,312	OB23078A	RK 1K 1/8W J			
322,328					
R311	OB05615A	RK 22K 1/4W J			
R313,333	OB23097A	RK 10K 1/8W J			
336,337					
R314,315	OB23089A	RK 4.7K 1/8W J			
316					
R318	OB05629A	RK 2.7K 1/4W J			
R319,320	OB23083A	RK 2.7K 1/8W J			
338					
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB09707A	RK 3.3K 1/8W J			
R326	OB09708A	RK 12K 1/8W J			
R331	OB23111A	RK 39K 1/8W J			
R335	OB09717A	RK 47K 1/8W J			
R603	OB23037A	RK 33 1/8W J			
C101,201	OB41233A	CP 2200P 100V J			
C102,202	OB40265A	CP 1000P 50V K			
C103,203	OB41094A	CP 390P 100V J			
C104,204	OB41237A	CP 3300P 100V J			
C105,205	OB41239A	CP 3900P 100V J			
C301,302	OB43053A	CC 0.047u 50V K			
303,306					
311,312					
313					
C305	OB43050A	CC 1000P 50V K			
C307,603	OB40173A	CE 1u 50V			
604					
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7u 35V			
C310	OB40169A	CE 4.7u 35V			
C314	OB40165A	CE 4.7u 16V			
C315	OB40174A	CE 2.2u 50V			
C316,317	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,333	OB41094A	CM 0.01u 50V			
334					
C321	OB40163A	CE 22u 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CM 100u 16V			
C325	OB05530A	CM 6800P 50V J			

(2) For TD-700 (Australia & Others), TD-700E and TD-700D

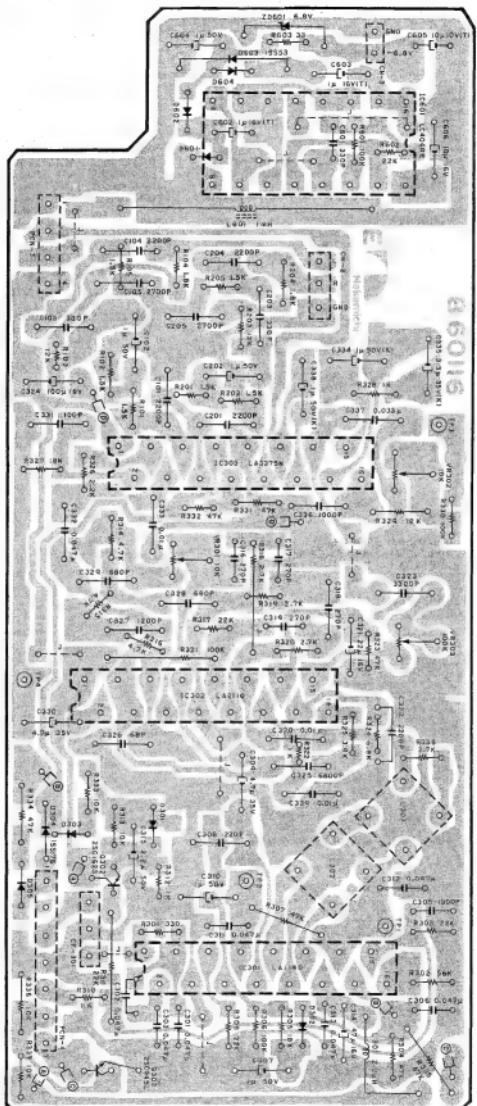


Fig. 8.11.2

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05458A	Tuner F.C.B. Ass'y TD-700 (Australia & Others), TD-700E & TD-700D	C328,329	OB05571A	CM 680P 50V J
		Tuner P.C.B.	C331	OB41386A	CP 100P 50V J
		IC LA1140	C332	OB05796A	CM 0.047u 50V J
IC301	OB06412A	IC LA2110	C334,338	OB40263A	CE 1u 50V K
IC302	OB06414A	IC LC4049B	C335	OB40264A	CE 3.3u 35V K
IC303	OB06415B	IC LA3370N	C336	OB41225A	CP 1000P 100V J
IC601	OB11066A	IC LC4049B	C337	OB40265A	CE 3.3u 35V J
Q302	OB14022A	TC 2SC1623	C338	OB43025A	CT 1u 16V
Q303	OB1872A	TC 2SC945L (P,Q)	C605	OB43020A	CT 10u 10V
ZD601	OB06241A	ZD 6.8V RD6.8EB2	C606	OB40162A	CE 10u 16V
ZD601,302	OB13064A	SID MA221	CF301	OB41076A	Ceramic Filter
301,302,601		CN3			SPE10.7M53GKY-A
602		PCN2			SP-100P 50V J
D304	OB06398A	SID 1SS176	PCN3		SP-9 Pan (1)
D305,604	OB13003A	SID RLS-78	PCN4		4P Connector (1)
D603	OB06181A	SID 1SS58			7P Connector (1)
L301	OB511106A	Micro Coll 2.2uH			0E00764A M2.6x6 8 Pan (2A)
L302	OB511106A	Det. Coll 2.2uH			P.C.B. Holder Stud (1)
L303	OB06712A	Det. Coll 57-1291-01		OB81117A	Contact Pin 1P (4)
		57-1057-01		OB04871B	Shield Case (1)
L601	OB51040A	Micro Coll 1mH			
VR301,302	OB32035A	Potentiometer 10K			
VR308	OB32038A	Potentiometer 100K			
RU301,302	OB23077A	RK 1.5K 1/8W J			
R105,201					
202,205					
R103,203	OB23099A	RK 12K 1/8W J			
R104,204	OB23079A	RK 1.8K 1/8W J			
R301	OB23061A	RK 330 1/8W J			
R302	OB23118A	RK 56K 1/8W J			
R303,308	OB23105A	RK 22K 1/8W J			
317,602					
R304,323	OB23113A	RK 47K 1/8W J			
331,332					
334					
R305,327	OB23103A	RK 18K 1/8W J			
R306,330	OB23121A	RK 100K 1/8W J			
335					
R307	OB05562A	RK 47K 1/4W VJ			
R310,312	OB23073A	RK 1K 1/8W J			
322,328					
R311	OB05615A	RK 22K 1/4W J			
R313,333	OB23097A	RK 10K 1/8W J			
335,337					
R314,315	OB23089A	RK 4.7K 1/8W J			
316					
R318	OB05629A	RK 2.7K 1/4W J			
R319,320	OB23083A	RK 2.7K 1/8W J			
338					
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB23085A	RK 2.2K 1/8W J			
R326	OB23081A	RK 2.2K 1/8W J			
R329	OB09708A	RK 12K 1/6W J			
R335	OB09717A	RK 47K 1/6W J			
R603	OB23037A	RK 33 1/8W J			
C101,104	OB41233A	CP 2200P 100V J			
201,204					
C102,202	OB40255A	CE 1u 50V			
C103,203	OB41213A	CP 330P 100V J			
C105,205	OB41235A	CP 2700P 100V J			
C301,302	OB43053A	CC 0.047u 50V K			
303,306					
311,312					
313					
C305	OB43050A	CC 1000P 50V K			
C307,310	OB40175A	CE 1u 50V			
603,604					
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7u 35V			
C314	OB40165A	CE 47u 16V			
C315	OB40174A	CE 2.2u 50V			
C316,317	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,333	OB41094A	CM 0.01u 50V			
339					
C321	OB40163A	CE 22u 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB40160A	CE 1000P 50V J			
C324	OB40206A	CE 100u 16V			
C325	OB05530A	CM 6800P 50V J			
C326	OB41191A	C 68P 100V J			
C327	OB05687A	CM 1200P 50V J			

(3) For TD-700 (Japan)

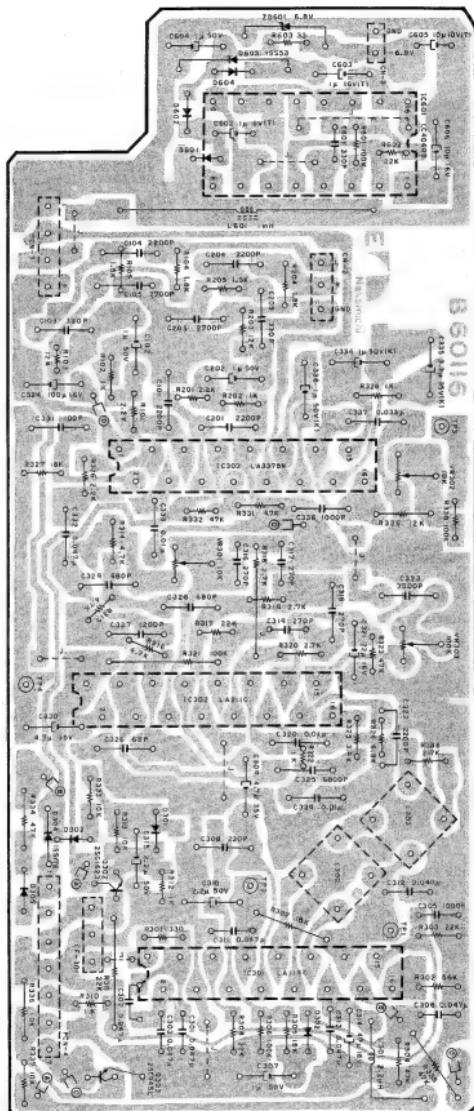


Fig. 8.11.3

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05423A	Tuner F.C.B. Ass'y TD-700 (Japan)	C332 C334,338 C336 C337 C601 C602 C605 C606 CF301	0B05796A 0B41263A 0B41264A 0B41225A 0B05583A 0B43055A 0B43025A 0B43020A 0B41075A	CM 0.047 μ 50V J CE 1 μ 50V K CE 3.3 μ 35V K 1000P 100V J CM 0.033 μ 50V J CC 330P 50V K CT 1 μ 16V CT 10 μ 10V CE 10 μ 16V Ceramic Filter SFE10.7MLK-A
IC301	OB06118E	Tuner P.C.B.	C332 C334,338 C336 C337 C601 C602 C605 C606	0B05796A 0B41263A 0B41264A 0B41225A 0B05583A 0B43055A 0B43025A 0B43020A	CM 0.047 μ 50V J CE 1 μ 50V K CE 3.3 μ 35V K 1000P 100V J CM 0.033 μ 50V J CC 330P 50V K CT 1 μ 16V CT 10 μ 10V
IC302	OB06412A	IC LA1140	C337	0B43055A	CE 10 μ 16V
IC303	OB06414A	IC LA2110	C601	0B43025A	CE 10 μ 16V
IC601	OB06415B	IC LA3375N	C602	0B43020A	CE 10 μ 16V
Q302	OB06222A	TR 2SC1623	C605	0B41075A	Ceramic Filter
Q303	OB01021A	TR 2SC1623 (P,Q)	C606	0B41075A	SFE10.7MLK-A
ZD601	OB06241A	ZD 6.8V RD6.8ED2	CF301	0B41075A	Ceramic Filter
D301,302	OB13064A	SID MA221	CN3	0B81036A	2P-S Post (1)
303,601			PCN2	0B81283A	3P-S Post (1)
602			PCN3	0B82288A	4P Connector (1)
D304	OB06398A	SID 1SS176	PCN4	0B82289A	7P Connector (1)
D305,604	OB13003A	SID RL5-72		0E00764A	M2.6x6 @ Pan (1)
D603	OB06181A	SID 1SS53		0J04869A	P.C.B. Holder Stud (1)
L301	OB51106A	Micro Coil 2.2 μ H		0B81117A	Contact Pin 1P (4)
L302	OB51142A	Det. Coil		0J04871B	Shield Case (1)
L808	OB06712A	Det. coil			
		5.01057-01			
L601	OB51040A	Micro Coil 1mH			
VR301,302	OB32035A	Potentiometer 10K			
VR303	OB32038A	Potentiometer 100K			
R101,201	OB23081A	RK 2.2K 1/8W J			
326					
R102,202	OB23073A	RK 1K 1/8W J			
310,312					
322,328					
R103,203	OB23099A	RK 12K 1/8W J			
R104,204	OB23079A	RK 1.8K 1/8W J			
R105,205	OB23077A	RK 1.5K 1/8W J			
R301	OB23041A	RK 330 1/8W J			
R302	OB23110A	RK 56K 1/8W J			
R303,808	OB23105A	RK 22K 1/8W J			
317,602					
R304,823	OB23118A	RK 47K 1/8W J			
831,832					
838					
R305,827	OB23108A	RK 18K 1/8W J			
R306,830	OB23121A	RK 100K 1/8W J			
601					
R307	OB05561A	RK 18K 1/4W VJ			
R311	OB05615A	RK 22K 1/4W VJ			
R314,833	OB23097A	RK 10K 1/8W J			
326,837					
R314,815	OB23089A	RK 4.7K 1/8W J			
316					
R318	OB05629A	RK 2.7K 1/4W J			
R319,820	OB23083A	RK 2.7K 1/8W J			
838					
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB23087A	RK 3.9K 1/8W J			
R329	OB09703A	RK 12K 1/6W J			
R335	OB09717A	RK 47K 1/6W J			
R340	OB22037A	RK 33 1/8W J			
C101,104	OB41233A	CP 2200P 100V J			
201,204					
C102,202	OB40255A	CE 1 μ 50V			
C103,203	OB41213A	CP 330P 100V J			
C105,205	OB41235A	CP 2700P 100V J			
C301,302	OB43053A	CC 0.047 μ 50V K			
C303,306					
310,312					
813					
C305	OB43050A	CC 1000P 50V K			
C307,803	OB40173A	CE 1 μ 50V			
604					
C308	OB41394A	CP 220P 50V J			
C309,830	OB40258A	CE 4.7u 35V			
C310,315	OB40174A	CE 2.2u 50V			
C314	OB40165A	CE 47u 16V			
C316,817	OB43049A	CC 270P 50V K			
319					
C318	OB09284A	CC 270P 50V J			
C320,833	OB41094A	CM 0.01 μ 50V			
838					
C321	OB40163A	CE 22u 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CE 100K 100V J			
C325	OB40207A	CM 100K 100V J			
C326	OB41191A	C 68P 100V J			
C327	OB05687A	CM 1200P 50V J			
C328,829	OB05571A	CM 680P 50V J			
C331	OB41386A	CP 100P 50V J			

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05611A	Amp. P.C.B. Ass'y	R301	OB23091A	RK 5.6K 1/8W J
	Serial No.:		R308	OB23069A	RK 680 1/8W J
	C60503551 -		C105.106	OB41369A	CM 0.033μ 50V J
	C60701301 -				
	— Dolby NR —		C107.207	OB41373A	CM 0.068μ 50V J
			C108.208	OB40256A	CE 2.2μ 50V
					— Line Amp. —
IC101.201	OB14119A	IC TFA0665	IC303	OB11001A	IC NJM4558M
ZD302	OB13011A	ZD 5.6K	Q103.203	OB06299A	TR 2SC2878
D201	OB13003A	SID RLZ5-BTE-11	Q301	OB14027A	TR 2SA812
L101.201	OB51149A	Inductor 8.2mH	R133.134	OB26009A	RM 100K 1/8W F
L102.202	OB51146A	L-C Block			
F123.223	OB23057A	RK 22K 1/8W J	135.136		
F124.224	OB23089A	RK 4.7K 1/8W J	233.234		
F125.225	OB23051A	RK 8.2K 1/8W J	233.235		
F126.226	OB23055A	RK 270 1/8W J	R137.237		
F127.227	OB26007A	RK 33K 1/8W F	R138.139	OB26010A	RM 8.25K 1/8W F
F128.228	OB26006A	RK 82K 1/8W F	238.239	OB26008A	RM 10K 1/8W F
F129.229	OB23090A	RK 5.1K 1/8W J	R147.247	OB23073A	RK 1K 1/8W J
F130.230	OB23117A	RK 68T 1/8W J	R148.248	OB23089A	RK 4.7K 1/8W J
F131.231	OB23081A	RK 2.2K 1/8W J	R305	OB23097A	RK 10K 1/8W J
302			R306	OB23121A	RK 100K 1/8W J
F132.232	OB22447A	RM 82K 1/6W F	C121.122	OB41476A	CM 0.1μ 50V J
F303	OB23097A	RK 10K 1/8W J	221.222		
F305	OB09669A	RK 470 1/6W J	SW301	OB70022A	Slide Switch
C109.209	OB05659A	CM 5600P 50V J			— Miscellaneous —
C110.116	OB41141A	CP 4700K 100V G			
C120.216					
C111.117	OB40009A	CE 10μ 16V			
C112.217					
302					
C112.118	OB41371A	CM 0.047μ 50V J	CN1	OB80113E	Amp. P.C.B.
C122.218			CN2	OB81187A	4P-S Post
C113.119	OB41176A	CM 0.22μ 50V J	CN3	OB822303A	3P-H Connector
C123.219			CN5	OB822304A	1P Connector
C144.120	OB40282A	CT 0.68μ 35V K	CP1	OB822306A	4P-H Connector
C120.209			CP2	OB822382A	6P Coupler EMC-G06
C115.215	OB05681A	CM 0.01μ 50V J	PCN1	OB822380A	2P Coupler EMC-G02
C129.229	OB40206A	CE 100μ 16V	PCN2	OB822378A	3P Connector
C130.230	OB40207A	CE 470μ 6.3V		OB822373A	6P Connector
		Contact Pin 1P (2)		OB80021A	Band EG-9 (2)
				OB900174A	Earth Lug B-4 (1)
	— Head Amp. —				
IC301	OB11017A	IC NJM072S-E			
Q101.201	OB06276A	FET 2SK170 (GR)			
Q102.202	OB14022A	TR 2SC1623			
ZD301	OB12162A	ZD 8.2V			
		RD8.2JS-T1B2			
VR101.201	OB32039A	Potentiometer 10K			
F101.106	OB23121A	TR 100K 1/8W J	CP1		
201.206			CP2	OB82293A	6P Coupler TVQ (1)
F102.202	OB22601A	RM 80.6 1/4W F		OB82295B	2P Coupler TVQ (1)
F103.203	OB22644A	RM 1.54K 1/4W F			
F105.205	OB26010A	RM 8.25K 1/8W F			
F107.207	OB22548A	RM 4.7M 1/4W J			
F108.208	OB24491A	RM 2.05K 1/6W F			
F109.209	OB26008A	RM 2.15K 1/8W F			
F110.210	OB26003A	RM 2.67K 1/8W F			
F111.211	OB23093A	RM 6.8K 1/8W J			
F112.212	OB23097A	RM 10K 1/8W J			
F113.213	OB23145A	RK 1M 1/8W J			
F306	OB23081A	RK 2.2K 1/8W J			
F307	OB23069A	RK 680 1/8W J			
C101.201	OB40259A	CE 0.01μ 50V J			
C102.202	OB40259A	CE 10μ 16V			
C103.203	OB09858A	CM 0.015μ 50V J			
C104.204	OB09861A	CF 0.027μ 50V J			
C301	OB40357A	CE 330μ 10V			
C302	OB40356A	CE 220μ 10V			
	OB81117A	Contact Pin 1P (1)			
	OB90044A	Shield Belt (1)			
	— Subsonic Filter —				
IC302	OB11032A	IC LF353N			
IC303	OB11027A	IC TC9145P			
D301	OB13063A	SID DAP202K			
R115.215	OB23115A	RK 56K 1/8W J			
F116.216	OB23137A	RK 470K 1/8W J			
F117.217	OB23129A	RK 220K 1/8W J			
R119.219	OB23139A	RK 560K 1/8W J			
R120.220	OB26004A	RM 8.66K 1/8W F			
R121.221	OB23145A	RK 1M 1/8W J			
R122.222	OB26005A	RM 1K 1/8W F			
R149.249	OB23141A	RK 680K 1/8W J			

8.12. Amp. P.C.B. Ass'y

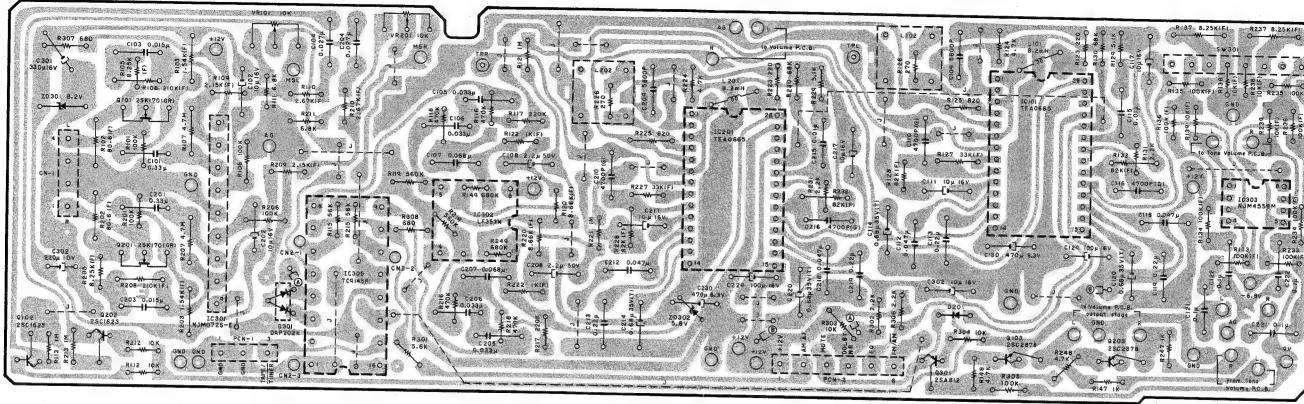


Fig. 8.12

8.13. Logic P.C.B. Ass'y

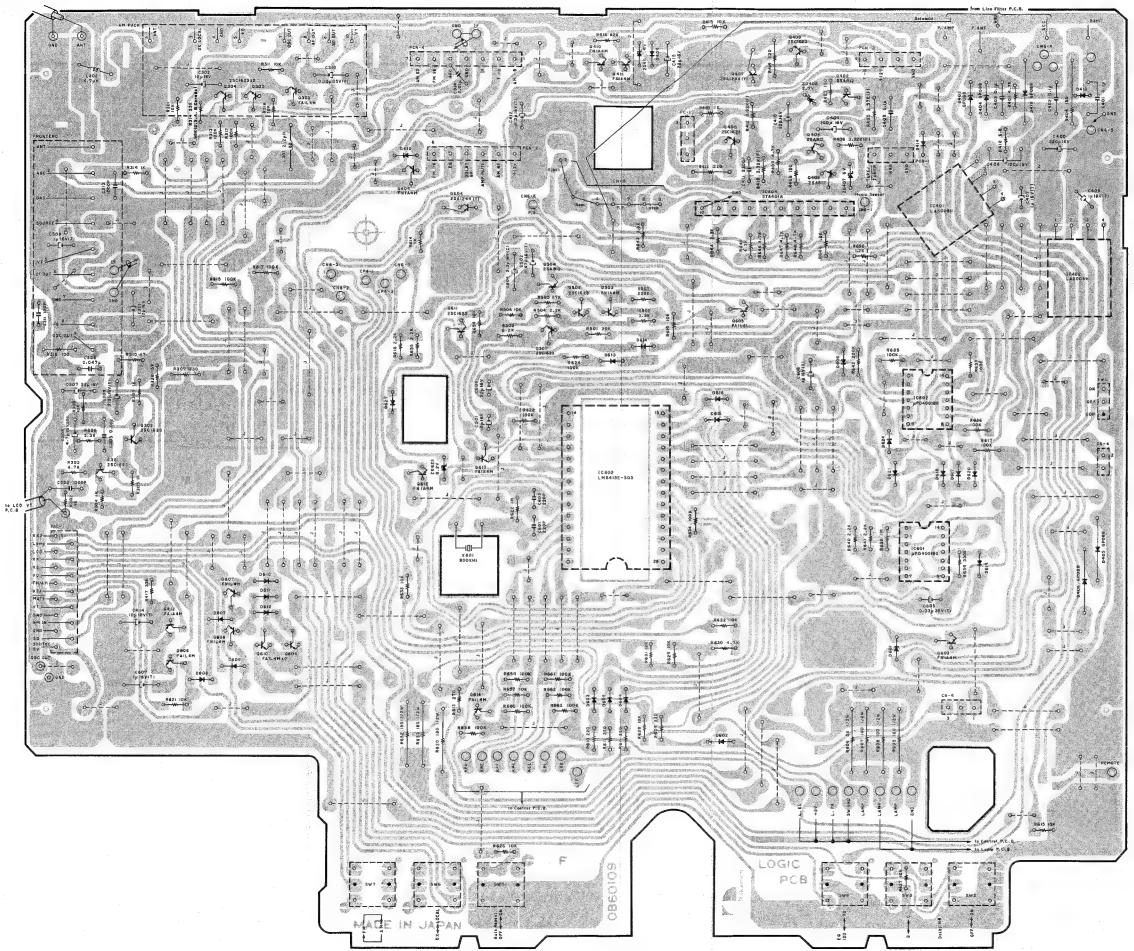
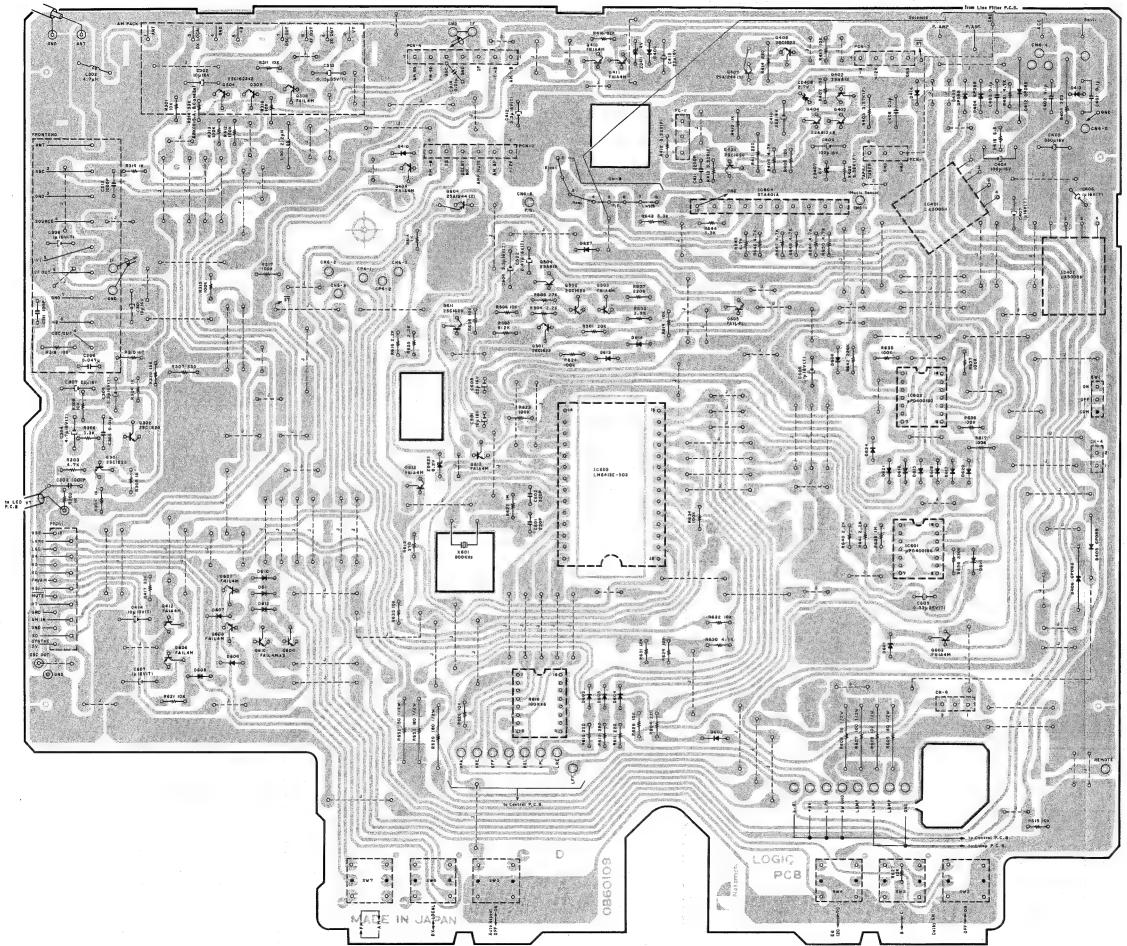


Fig. 8.13.1 C60504101 - (TD-700 & TD-700E)

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
BA05618A	Logic P.C.B. Ass'y TD-700 (Japan)	ZD411 0B13026A ZD 9V RLZ9.1BTE-11	0B91004A	Front-end TD-700 (U.S.A. & Canada)				
BA05619A	Logic P.C.B. Ass'y TD-700 (U.S.A. & Canada)	D403,404 0B06109A SID GP08B	0B91003A	Front-end TD-700 (Japan)				
BA05620A	Logic P.C.B. Ass'y TD-700 (Australia & Others) & TD-700E	D409,410 0B13003A SID RLS-73 D413,414 0B13064A SID MA221 R401,409 0B23089A RK 4.7K 1/8W J R404 0B05795A RK 150 1/4W J	CN9	— Miscellaneous —				
BA05622A	Logic P.C.B. Ass'y TD-700D Serial No.: C65054101 -	R405 0B226012A RM 3.57K 1/8W F R406,412 0B26013A RM 3.32K 1/8W F R407 0B23053A RK 150 1/8W J R408 0B23051A RK 120 1/8W J R410 0B23073A RK 12 1/8W J R411,414 0B23150A RK 220 1/4W J R415 0B23151A RK 100 1/8W J R416 0B23119A RK 82K 1/8W J R417 0B23109A RK 32K 1/8W J C401,402 0B09292A CC 0.1u 50V Z	0B80109F 0B81037A 0B81273B 0B82290A 0B82291A 0B82298B 0B82307E 0B82309B 0B82313A 0B82336A 0B890019A 0E00174A 0B81272B 0B81273B 0B81268B 0B81268B 0A05501A 0A05497A	Logic P.C.B. 3P-S Terminal 4P Terminal (1) 4P Connector (1) 7P Connector (1) 2P Coupler (1) 7P-H Connector (1) 8P-H Connector (1) 3P Connector (1) 6P Connector (1) SK Binder (1) Earth Lug B-4 (4) TD-700D (1) TD-700D (1) 4P Terminal Male TD-700 & TD-700E (1) Line Filter P.C.B. Ass'y (1) Transistor P.C.B. Ass'y (1)				
— CPU —		— Reset —						
IC601,602	OB11063A IC μ PD4001BG	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14022A	TR 2SC1623				
IC603	OB11061A IC LM6413E-503	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14153A	TR FN114M				
IC604	OB10048A IC STA401A	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14027A	TR 2SA1244 (Y)				
Q604	OB10017A TR 2SA1244 (Y)	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14153A	TR FN114M				
Q605	OB14149A TR FAIL4L	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14027A	TR FAIL4L				
Q606,609	OB14146A TR FAIL4M	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14027A	TR FAIL4M				
S10	OB14151A TR FN114M	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14153A	TR FN114M				
Q607,608	OB14151A TR FN114M	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14153A	TR FN114M				
614	OB14022A TR 2SC1623	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14027A	TR 2SC1623				
Q611	OB14144A TR FA1A4M	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14144A	TR FA1A4M				
Q613	OB13024A ZD 8.2V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B13024A	ZD 8.2V				
ZD623	RLZ8.2CTE-11	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B13064A	SID MA221 (23)				
— Reset —		— Tuner —						
X601	OB23070A Crystal 800kHz	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23070A	RF 180 1/2W J				
R605,620	OB24035A RF 180 1/2W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B24035A	653				
R606	OB24041A RF 56 1/2W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B24041A	RF 56 1/2W J				
R607,608	OB09507A RF 100 1/2W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B09507A	RF 100 1/2W J				
R609,610	OB23057A RF 220 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23057A	611,612				
R613	OB23059A RK 270 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23059A	RK 270 1/8W J				
R614	OB23073A RK 1K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23073A	RK 1K 1/8W J				
R615,619	OB23097A RK 10K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23097A	RK 10K 1/8W J				
R621,626	OB23073A CT 10u 16V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23073A	622,628				
R629,632	OB23073A CT 10u 16V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23073A	633,634				
R637	OB23073A CT 10u 16V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23073A	657				
R616,640	OB23081A RK 2.2K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23081A	641,655				
R617,623	OB23121A RK 100K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23121A	(13)				
R624,634	OB23073A RK 10K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23073A	634,635				
R637	OB23073A RK 10K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23073A	658-663				
R622,638	OB23145A RK 1M 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23145A	RK 1M 1/8W J				
R630	OB23089A RK 4.7K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23089A	645-648				
R631	OB23089A RK 12K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23089A	(5)				
R639	OB23132A RK 390K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23132A	R642				
R642	OB23128A RK 220K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23128A	R643,644				
R643,644	OB23085A RK 3.3K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23085A	649,650				
R649,650	OB23075A RK 1.2K 1/8W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23075A	R652				
R652	OB24040A RF 150 1/2W J	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B24040A	R652,658				
C601,602	OB23048A CE 220P 50V K	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23048A	C603				
C604	OB23163A CE 10u 35V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23163A	C605				
C605	OB23037A CT 0.3u 35V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23037A	C606,607				
C606,607	OB23025A CT 1u 16V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B23025A	SW1-5				
SW6	OB70018A Push Switch	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B70018A	SW6				
SW7	OB70021A Slide Switch	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B70021A	CN4				
CN4	OB81019A 2P-T Post	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B81019A	FFC1				
FFC1	OB81279A 15P FFC Connector	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B81279A	— Regulator —				
— Regulator —		— Tuner —						
IC401,402	OB11034A IC LA5005H	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B11034A	OB14027A				
Q402,403	OB14027A TR 2SA812	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14027A	OB14027A				
Q404	OB14028A TR 2SC1623	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14028A	OB14028A				
Q405,408	OB14022A TR 2SC1623	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14022A	OB14022A				
Q407	OB10017A TR 2SA1244 (Y)	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B10017A	OB10017A				
Q409,410	OB14153A TR FN114M	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14153A	OB14153A				
Q411,412	OB14144A TR FA1A4M	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14144A	OB14144A				
ZD407	OB18014A ZD 6V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B18014A	PLZ6.2BTE-11				
ZD408	OB14121A ZD 2.7V	Q501,502 0B14022A TR 2SC1623 Q503 0B14153A TR FN114M Q504 0B14027A TR 2SA812	0B14121A	RD2.7MB-T1A				

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
BA05618A	Logic P.C.B. Ass'y	D403,404	OB06109A	SID GP08B		OB91004A	Front-end TD-700	
BA05619A	Logic P.C.B. Ass'y	412		D405,406		OB91003A	(U.S.A. & Canada)	
BA05619A	Logic P.C.B. Ass'y (U.S.A. & Canada)	D413,414	OB13003A	SID RLS-73			Front-end TD-700 (Japan)	
BA05620A	Logic P.C.B. Ass'y	D409,410	OB13064A	SID MA221	CN9	OB86109D	Logic P.C.B.	
BA05620A	Logic P.C.B. Ass'y	D413,414	OB13064A	SID MA221		OB881037A	3P-S Post	
BA05620A	Logic P.C.B. Ass'y	D401,409	OB23089A	RK 4.7K 1/8W J		OB881273B	4P Terminal (1)	
BA05620A	Logic P.C.B. Ass'y	D404	OB01933A	RK 220 1/4W J		OB882290A	4P Connector (1)	
BA05620A	Logic P.C.B. Ass'y	D405	OB26013A	RM 3.57K 1/8W F		OB882298B	2P Terminal (1)	
BA05622A	Logic P.C.B. Ass'y	D406,412	OB26013A	RM 3.32K 1/8W F		OB882307C	7P-H Connector (1)	
BA05622A	Logic P.C.B. Ass'y	413				OB882309B	8P-H Connector (1)	
BA05622A	Logic P.C.B. Ass'y	R407	OB23053A	RK 150 1/8W J		OB882334A	3P Connector (1)	
BA05622A	Serial Nos.:	R408	OB23051A	RK 120 1/8W J		OB882336A	6P Connector (1)	
	C60503399 - 04100	R410	OB23051A	RK 100 1/8W J		OB90019A	SI Binder	
	C60701251	R411,414	OB23051A	RK 200 1/4W J		OB900174A	Earth Lug B-4 (4)	
		R415	OB23097A	RK 150 1/8W J		OB881272B	4P Terminal Male	
		R416	OB23119A	RK 82K 1/8W J		OB881273B	TD-700D (1)	
		R417	OB23109A	RK 33K 1/8W J		OB881268B	4P Terminal Female	
IC601,602	OB11063A	IC μPD4001B	R418	OB23021A	RK 6.8 1/8W J	OB881268B	TD-700D (1)	
IC603	OB11061A	IC LM6413E-50S	C401,402	OB09292A	CC 0.1μ 50V Z	BA05501A	Line Filter P.C.B.	
IC604	OB10048A	IC STA401A	408			BA05497A	Ass'y (1)	
Q603,612	OB14153A	TR FN14AM	C403	OB43054A	CC 0.1μ 50V Z		Transistor P.C.B. Ass'y (1)	
Q603,612	OB14067A	TR 2SA1244 (Y)	C404,409	OB40206A	CC 100K 16V			
Q605	OB14144A	TR FA114L	C405	OB40808A	CC 330K 16V			
Q606,609	OB14146A	TR FA14AM	C406,407	OB43025A	CT 16V			
610		TR FA14AM	C410,415	OB40163A	CE 22u 16V			
Q607,608	OB14151A	TR FN114M	C411	OB43051A	CC 2200K 50V K			
Q611	OB14022A	TR 2SC1623	C412	OB43028A	CT 3.4u 16V			
Q613	OB14144A	TR FA14AM	C414	OB43020A	CT 10u 10V			
ZD623	OB13024A	RLZ8.2CTE-11						
D601-621	OB13064A	SID MA221 (23)						
624,627								
X601	OB02307A	Crystal 800KHz	Q501,502	OB14022A	TR 2SC1623			
R605,620	OB24035A	R.F. 180 1/2W J	Q503	OB14153A	TR FN114M			
653			Q504	OB14027A	TR 2SA812			
R606	OB24041A	R.F. 56 1/2W J	R501	OB23085A	RK 20K 1/8W J			
R607,608	OB09907A	R.F. 100 1/2W J	R502	OB23085A	RK 10K 1/8W J			
R609,610	OB23057A	RK 220 1/8W J	R504	OB23081A	RK 2.2K 1/8W J			
611,612			R505	OB23107A	RK 27K 1/8W J			
R613	OB23059A	RK 270 1/8W J	R506	OB23097A	RK 10K 1/8W J			
R614	OB23073A	RK 1K 1/8W J	R507	OB23129A	RK 220K 1/8W J			
R615,619	OB23097A	RK 10K 1/8W J	C501	OB40162A	CE 10u 16V			
620			C502	OB43023A	CT 0.47u 16V			
627,628								
629,632								
633,634								
R616,640	OB23081A	RK 2.2K 1/8W J	Q301,302	OB14022A	TR 2SC1623			
641,655			304,305					
R617,623	OB23121A	RK 100K 1/8W J	Q803	OB14146A	TR FA114M			
624,634			L301	OB51108A	Micro Coll 2.2uH			
626,636			L302	OB51011A	Micro Coll 4.7uH			
637			R301,308	OB23097A	RK 10K 1/8W J			
R618	OB21001A	R-Netwrok 100Kx6	311,316					
R622,638	OB23145A	RK 1M 1/8W J	R302,304	OB23073A	RK 1K 1/8W J			
R630	OB23089A	RK 4.7K 1/8W J	305,309					
645-650			(7) 319					
R631	OB23089A	RK 12K 1/8W J	R306	OB23089A	RK 4.7K 1/8W J			
R639	OB23133A	RK 330K 1/8W J	R306	OB23085A	RK 3.3K 1/8W J			
R642	OB23129A	RK 220K 1/8W J	R307	OB23061A	RK 330 1/8W J			
R643,644	OB23085A	RK 3.3K 1/8W J	R310	OB23041A	RK 47 1/8W J			
R652	OB24040A	R.F. 150 1/2W J	R312,313	OB23121A	RK 100K 1/8W J			
C601,602	OB4048A	CC 220P 50V K	315,317					
C603	OB40163A	CE 22u 16V	R314	OB23109A	RK 33K 1/8W J			
C604	OB40228A	CT 3.3u 16V						
C605	OB40309A	CT 0.35u 16V						
C606,607	OB23025A	CT 1u 16V		OB23117A	RK 68K 1/8W J			
SW1-5								
SW6	OB70018A	Push Switch						
SW7	OB70021A	Slide Switch	R318	OB90653A	RK 100 1/6W J			
CN4	OB70019A	Push Switch	R320	OB23101A	RK 15K 1/8W J			
FFC1	OB81205A	2P-T Post	C301,302	OB40162A	CE 10u 16V			
	OB81279A	15P FFC Connector	C303	OB43050A	CC 1000P 50V K			
— Regulator —			C304	OB40280A	CT 4.7u 16V			
			C305	OB40280A	CT 0.01u 50V J			
			C306	OB40280A	CT 0.047u 50V K			
			C308	OB40162A	CE 22u 16V			
			C308	OB43025A	CT 1u 16V			
			C309	OB40279A	CT 3.3u 16V			
			C310	OB43035A	CT 0.15u 35V			
			C311	OB43047A	CC 100P 50V K			
			C313	OB41022A	CC 1000P 50V J			
			C314	OB40280A	CT 0.01u 50V K			
				OB91005A	AM Pack (1)			
IC401,402	OB11034A	IC LA5005H	C907	OB91006A	Front-end TD-700			
Q402,403	OB14027A	TR 2SA812	C308					
404								
Q406,408	OB14022A	TR 2SC1623	C310					
Q407,409	OB10017A	TR 2SA1244 (Y)	C311					
Q409,410	OB14153A	TR FN114M	C312					
Q411,412	OB14144A	TR FA14AM	C313					
ZD407	OB13014A	ZD 6V	C314					
ZD408	OB14121A	PLZ6.2BTE-11						
ZD411	OB13026A	ZD 2.7V						
		RD2.7MB-T1A						
		ZD 9V						
		RLZ9.1BTE-11						



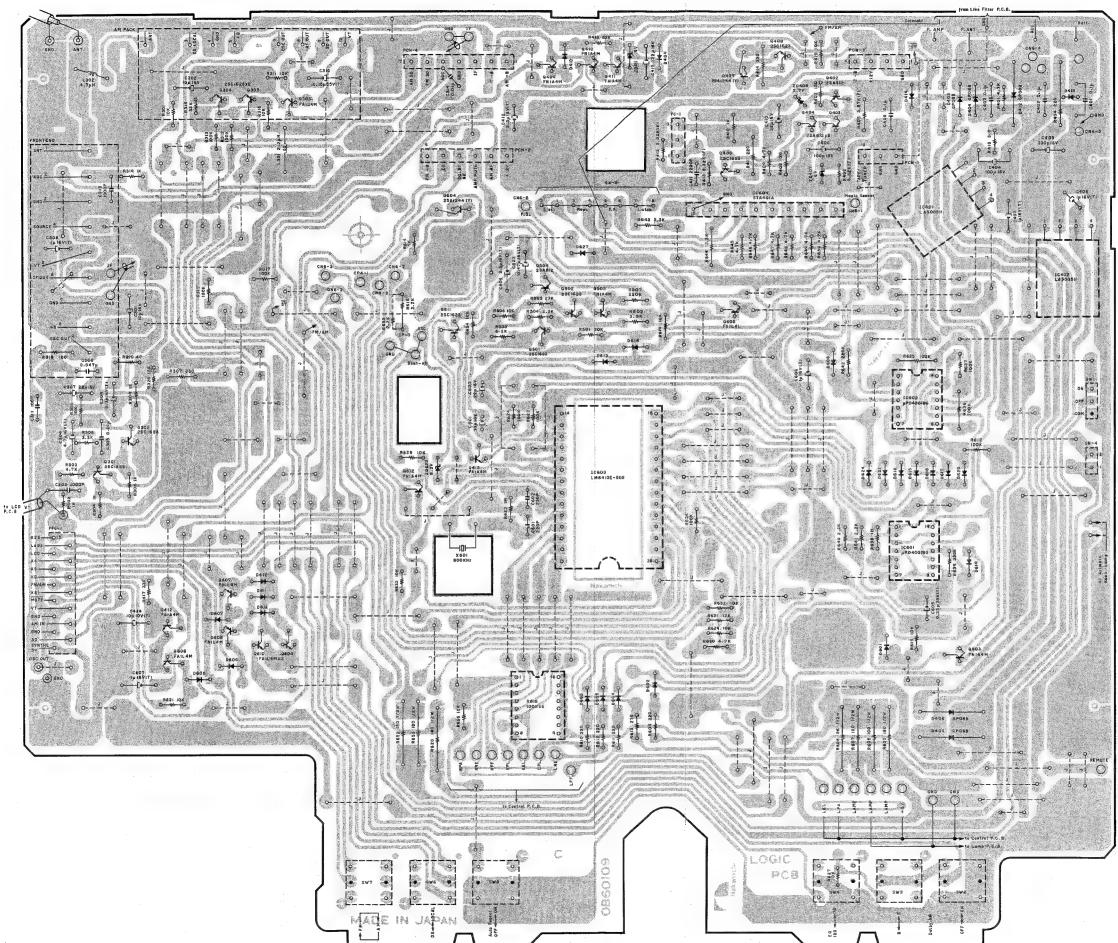


Fig. 8.13.3 C60501001 - 03398 (TD-700 & TD-700E)
C60701001 - 01250 (TD-700D)

9. SCHEMATIC DIAGRAMS

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
BA05407A	Logic P.C.B. Ass'y TD-700 (Japan)	D403,404 405,406	OB06109A	SID GP08B		CP3		—Miscellaneous—
BA05427A	Logic P.C.B. Ass'y TD-700 (U.S.A. & Canada)	412			SID RLS-73		OB82296A	3P Coupler
BA05451A	Logic P.C.B. Ass'y TD-700 (Australia & Others)	D413,414 415	OB13003A	SID RLS-73			OB82297A	4P Terminal
BA05452A	Logic P.C.B. Ass'y TD-700 (U.S.A. & Canada)	R401,409 R405,406 R406,412	OB23089A OB23090A OB26013A	RK 4.7K 1/8W J RK 2.5K 1/4W J RM 3.3K 1/8W F			OB82298A	7P Connector
—CPU—		R407	OB23053A	RK 150 1/8W J			OB82299A	7P Connector
IC601,602		R408	OB23051A	RK 120 1/8W J			OB82300A	8P-H Connector
IC603		R409	OB23052A	RK 150 1/8W J			OB82301C	8P-H Connector
IC604		R410	OB23021A	RK 6.8 1/8W J			OB82302B	8P-H Connector
IC605		R411,414	OB09292A	RK 150 1/8W J			OB82303B	8P-H Connector
IC606,609		R415	OB23097A	RK 10K 1/8W J			OB90019A	SI Binder
610		R416	OB23108A	RK 10K 1/8W J			OB90019B	SI Binder
Q607,608		R417	OB23109A	RK 10K 1/8W J			OB90120A	SI Binder
IC611		R418	OB23021A	RK 6.8 1/8W J			OB90120B	SI Binder
Q612		R419	OB23092A	RK 150 1/8W J			OB90121A	SI Binder
Q604		R420	OB23093A	RK 150 1/8W J			OB90121B	SI Binder
Q605		R421	OB23094A	RK 150 1/8W J			OB90122A	SI Binder
Q606		R422	OB23095A	RK 150 1/8W J			OB90122B	SI Binder
Q613		R423	OB23096A	RK 150 1/8W J			OB90123A	SI Binder
ZD623		R424	OB23097A	RK 150 1/8W J			OB90123B	SI Binder
D601,621		R425	OB13064A	RK 150 1/8W J			OB90124A	SI Binder
624,627		R426	OB13064A	RK 150 1/8W J			OB90125A	SI Binder
X601		R427	OB20307A	Crystat 500Hz			OB90126A	SI Binder
R605,620		R428	OB24038A	RF 150 1/2W J			OB90127A	SI Binder
658		R429	OB24039A	RF 150 1/2W J			OB90128A	SI Binder
R609		R430	OB24041A	RF 150 1/2W J			OB90129A	SI Binder
E607,608		R431	OB24041A	RF 150 1/2W J			OB90130A	SI Binder
R609,610		R432	OB24057A	RF 150 1/2W J			OB90131A	SI Binder
611		R433	OB24057A	RF 150 1/2W J			OB90132A	SI Binder
R613		R434	OB23059A	RK 270 1/8W J			OB90133A	SI Binder
R614		R435	OB23078A	RK 1K 1/8W J			OB90134A	SI Binder
Z615,619		R436	OB23078A	RK 1K 1/8W J			OB90135A	SI Binder
R621,626		R437	OB23097A	RK 1K 1/8W J			OB90136A	SI Binder
627,628		R438	OB23097A	RK 1K 1/8W J			OB90137A	SI Binder
Z629,632		R439	OB23097A	RK 1K 1/8W J			OB90138A	SI Binder
633,634		R440	OB23097A	RK 1K 1/8W J			OB90139A	SI Binder
R616,640		R441	OB23081A	RK 2.2K 1/8W J			OB90140A	SI Binder
643,645		R442	OB23081A	RK 2.2K 1/8W J			OB90141A	SI Binder
R617,623		R443	OB23121A	RK 100K 1/8W J			OB90142A	SI Binder
Z624,634		R444	OB23121A	RK 100K 1/8W J			OB90143A	SI Binder
635,636		R445	OB23121A	RK 100K 1/8W J			OB90144A	SI Binder
637		R446	OB23121A	RK 100K 1/8W J			OB90145A	SI Binder
R638		R447	OB23121A	RK 100K 1/8W J			OB90146A	SI Binder
R639		R448	OB23121A	RK 100K 1/8W J			OB90147A	SI Binder
R640		R449	OB23121A	RK 100K 1/8W J			OB90148A	SI Binder
R641,644		R450	OB23121A	RK 100K 1/8W J			OB90149A	SI Binder
R642,650		R451	OB23121A	RK 100K 1/8W J			OB90150A	SI Binder
R643,658		R452	OB23121A	RK 100K 1/8W J			OB90151A	SI Binder
R644,650		R453	OB23121A	RK 100K 1/8W J			OB90152A	SI Binder
R645		R454	OB23121A	RK 100K 1/8W J			OB90153A	SI Binder
R646		R455	OB23121A	RK 100K 1/8W J			OB90154A	SI Binder
R647		R456	OB23121A	RK 100K 1/8W J			OB90155A	SI Binder
R648		R457	OB23121A	RK 100K 1/8W J			OB90156A	SI Binder
R649		R458	OB23121A	RK 100K 1/8W J			OB90157A	SI Binder
R650		R459	OB23121A	RK 100K 1/8W J			OB90158A	SI Binder
R651		R460	OB23121A	RK 100K 1/8W J			OB90159A	SI Binder
R652,668		R461	OB23121A	RK 100K 1/8W J			OB90160A	SI Binder
R653		R462	OB23121A	RK 100K 1/8W J			OB90161A	SI Binder
R654		R463	OB23121A	RK 100K 1/8W J			OB90162A	SI Binder
R655		R464	OB23121A	RK 100K 1/8W J			OB90163A	SI Binder
R656		R465	OB23121A	RK 100K 1/8W J			OB90164A	SI Binder
R657		R466	OB23121A	RK 100K 1/8W J			OB90165A	SI Binder
R658		R467	OB23121A	RK 100K 1/8W J			OB90166A	SI Binder
R659		R468	OB23121A	RK 100K 1/8W J			OB90167A	SI Binder
R660		R469	OB23121A	RK 100K 1/8W J			OB90168A	SI Binder
R661		R470	OB23121A	RK 100K 1/8W J			OB90169A	SI Binder
R662		R471	OB23121A	RK 100K 1/8W J			OB90170A	SI Binder
R663		R472	OB23121A	RK 100K 1/8W J			OB90171A	SI Binder
R664		R473	OB23121A	RK 100K 1/8W J			OB90172A	SI Binder
R665		R474	OB23121A	RK 100K 1/8W J			OB90173A	SI Binder
R666		R475	OB23121A	RK 100K 1/8W J			OB90174A	SI Binder
R667		R476	OB23121A	RK 100K 1/8W J			OB90175A	SI Binder
R668		R477	OB23121A	RK 100K 1/8W J			OB90176A	SI Binder
R669		R478	OB23121A	RK 100K 1/8W J			OB90177A	SI Binder
R670		R479	OB23121A	RK 100K 1/8W J			OB90178A	SI Binder
R671		R480	OB23121A	RK 100K 1/8W J			OB90179A	SI Binder
R672		R481	OB23121A	RK 100K 1/8W J			OB90180A	SI Binder
R673		R482	OB23121A	RK 100K 1/8W J			OB90181A	SI Binder
R674		R483	OB23121A	RK 100K 1/8W J			OB90182A	SI Binder
R675		R484	OB23121A	RK 100K 1/8W J			OB90183A	SI Binder
R676		R485	OB23121A	RK 100K 1/8W J			OB90184A	SI Binder
R677		R486	OB23121A	RK 100K 1/8W J			OB90185A	SI Binder
CN4		R487	OB23121A	RK 100K 1/8W J			OB90186A	SI Binder
FFC1		R488	OB23121A	RK 100K 1/8W J			OB90187A	SI Binder
C003		R489	OB23121A	RK 100K 1/8W J			OB90188A	SI Binder
C004		R490	OB23121A	RK 100K 1/8W J			OB90189A	SI Binder
C005		R491	OB23121A	RK 100K 1/8W J			OB90190A	SI Binder
C006,607		R492	OB23121A	RK 100K 1/8W J			OB90191A	SI Binder
SW1-5		R493	OB23121A	RK 100K 1/8W J			OB90192A	SI Binder
SW6		R494	OB23121A	RK 100K 1/8W J			OB90193A	SI Binder
SW7		R495	OB23121A	RK 100K 1/8W J			OB90194A	SI Binder
SW8		R496	OB23121A	RK 100K 1/8W J			OB90195A	SI Binder
SW9		R497	OB23121A	RK 100K 1/8W J			OB90196A	SI Binder
SW10		R498	OB23121A	RK 100K 1/8W J			OB90197A	SI Binder
SW11		R499	OB23121A	RK 100K 1/8W J			OB90198A	SI Binder
SW12		R500	OB23121A	RK 100K 1/8W J			OB90199A	SI Binder
SW13		R501	OB23121A	RK 100K 1/8W J			OB90200A	SI Binder
SW14		R502	OB23121A	RK 100K 1/8W J			OB90201A	SI Binder
SW15		R503	OB23121A	RK 100K 1/8W J			OB90202A	SI Binder
SW16		R504	OB23121A	RK 100K 1/8W J			OB90203A	SI Binder
SW17		R505	OB23121A	RK 100K 1/8W J			OB90204A	SI Binder
SW18		R506	OB23121A	RK 100K 1/8W J			OB90205A	SI Binder
SW19		R507	OB23121A	RK 100K 1/8W J			OB90206A	SI Binder
SW20		R508	OB23121A	RK 100K 1/8W J			OB90207A	SI Binder
SW21		R509	OB23121A	RK 100K 1/8W J			OB90208A	SI Binder
SW22		R510	OB23121A	RK 100K 1/8W J			OB90209A	SI Binder
SW23		R511	OB23121A	RK 100K 1/8W J			OB90210A	SI Binder
SW24		R512	OB23121A	RK 100K 1/8W J			OB90211A	SI Binder
SW25		R513	OB23121A	RK 100K 1/8W J			OB90212A	SI Binder
SW26		R514	OB23121A	RK 100K 1/8W J			OB90213A	SI Binder
SW27		R515	OB23121A	RK 100K 1/8W J			OB90214A	SI Binder
SW28		R516	OB23121A	RK 100K 1/8W J			OB90215A	SI Binder
SW29		R517	OB23121A	RK 100K 1/8W J			OB90216A	SI Binder
SW30		R518	OB23121A	RK 100K 1/8W J			OB90217A	SI Binder
SW31		R519	OB23121A	RK 100K 1/8W J			OB90218A	SI Binder
SW32		R520	OB23121A	RK 100K 1/8W J			OB90219A	SI Binder
SW33		R521	OB23121A	RK 100K 1/8W J			OB90220A	SI Binder
SW34		R522	OB23121A	RK 100K 1/8W J			OB90221A	SI Binder
SW35		R523	OB23121A	RK 100K 1/8W J			OB90222A	SI Binder
SW36		R524	OB23121A	RK 100K 1/8W J			OB90223A	SI Binder
SW37		R525	OB23121A	RK 100K 1/8W J			OB90224A	SI Binder
SW38		R526	OB23121A	RK 100K 1/8W J			OB90225A	SI Binder
SW39		R527	OB23121A	RK 100K 1/8W J			OB90226A	SI Binder
SW40		R528	OB23121A	RK 100K 1/8W J			OB90227A	SI Binder
SW41		R529	OB23121A	RK 100K 1/8W J			OB90228A	SI Binder
SW42		R530	OB23121A	RK 100K 1/8W J			OB90229A	SI Binder
SW43		R531	OB23121A	RK 100K 1/8W J			OB90230A	SI Binder
SW44		R532	OB23121A	RK 100K 1/8W J			OB90231A	SI Binder
SW45		R533	OB23121A	RK 100K 1/8W J			OB90232A	SI Binder
SW46		R534	OB23121A	RK 100K 1/8W J			OB90233A	SI Binder
SW47		R535	OB23121A	RK 100K 1/8W J			OB90234A	SI Binder
SW48		R536	OB23121A	RK 100K 1/8W J			OB90235A	SI Binder
SW49		R537	OB23121A	RK 100K 1/8W J			OB90236A	SI Binder
SW50		R538	OB23121A	RK 100K 1/8W J			OB90237A	SI Binder
SW51		R539	OB23121A	RK 100K 1/8W J			OB90238A	SI Binder
SW52		R540	OB23121A	RK 100K 1/8W J			OB90239A	SI Binder
SW53		R541	OB23121A	RK 100K 1/8W J			OB90240A	SI Binder
SW54		R542	OB23121A	RK 100K 1/8W J			OB90241A	SI Binder
SW55		R543	OB23121A	RK 100K 1/8W J			OB90242A	SI Binder
SW56		R544	OB23121A	RK 100K 1/8W J			OB90243A	SI Binder
SW57		R545	OB23121A	RK 100K 1/8W J			OB90244A	SI Binder
SW58		R546	OB23121A	RK 100K 1/8W J			OB90245A	SI Binder
SW59		R547	OB23121A	RK 100K 1/8W J			OB90246A	SI Binder
SW60		R548	OB23121A	RK 100K 1/8W J			OB90247A	SI Binder
SW61		R549	OB23121A	RK 100K 1/8W J			OB90248A	SI Binder
SW62		R550	OB23121A	RK 100K 1/8W J			OB90249A	SI Binder
SW63		R551	OB23121A	RK 100K 1/8W J			OB90250A	SI Binder
SW64		R552	OB23121A	RK 100K 1/8W J			OB90251	

9.2. Schematic Diagrams
(1) Tuner Section

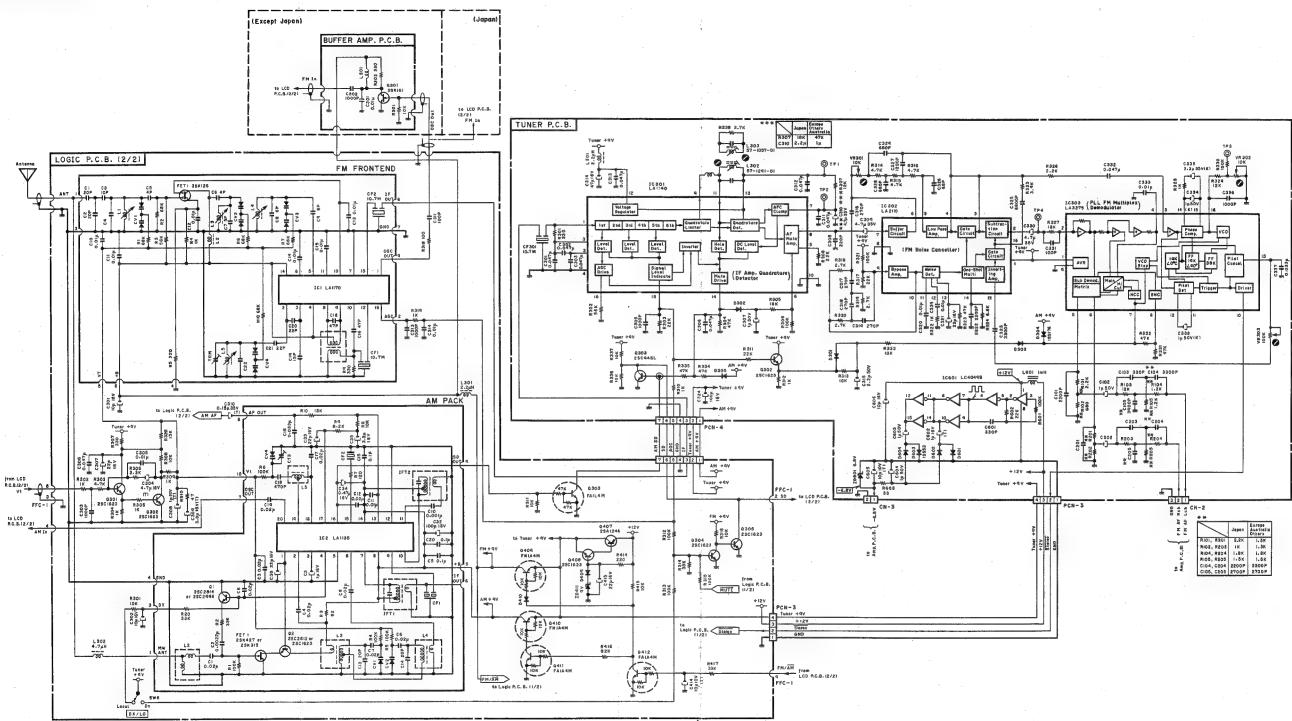


Fig. 9.2.1.1 TD-700E, TD-700D & TD-700 (Australia, Others & Japan)

Notes: 1. Diode is MA221 or RLS-73 unless otherwise specified.
2. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

10. WIRING DIAGRAMS

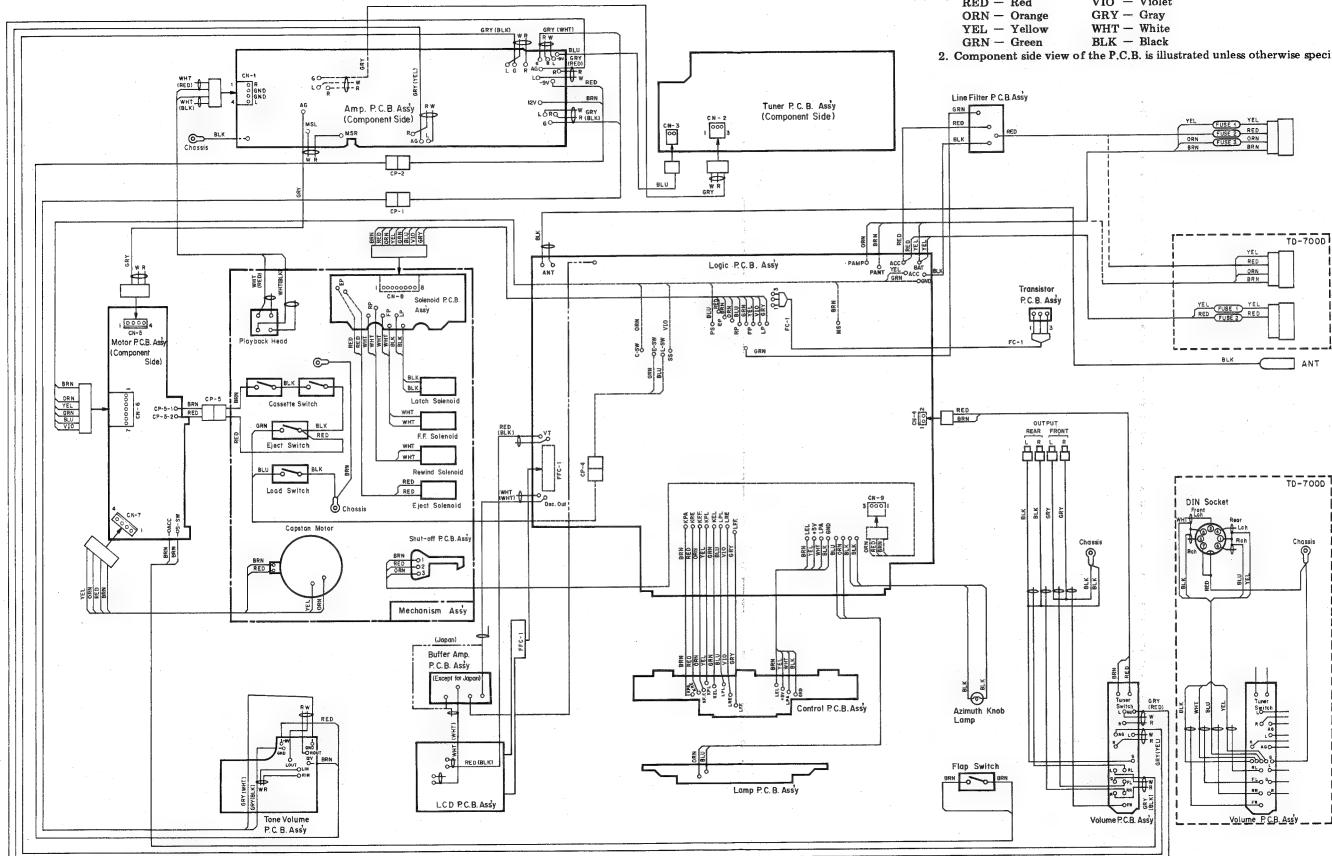


Fig. 10.1 C60503399 - (TD-700 & TD-700E)
C60701301 - (TD-700D)

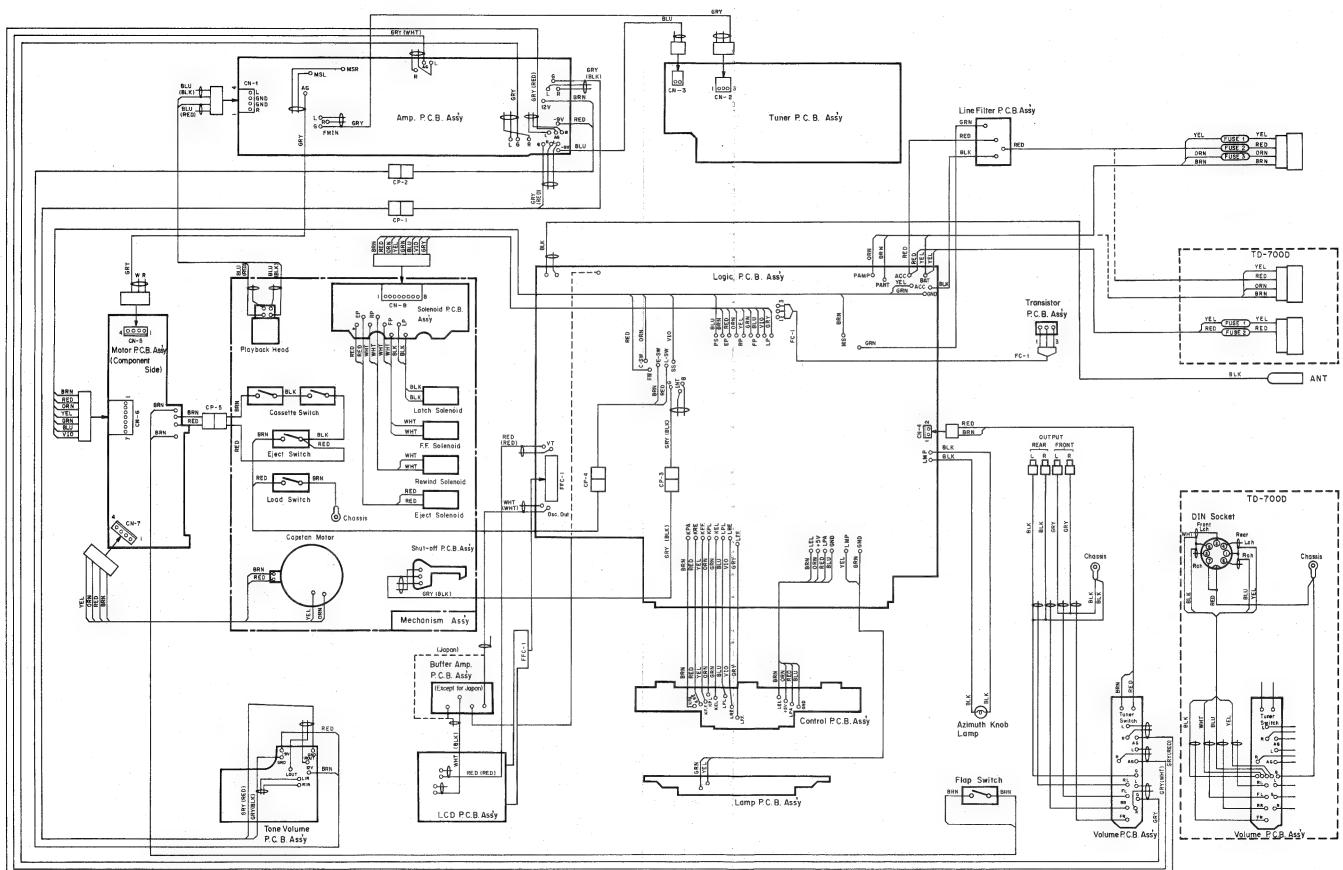


Fig. 10.2 C60501001 - 03898 (TD-700 & TD-700E)
C60701001 - 01300 (TD-700D)

11. TIMING CHART

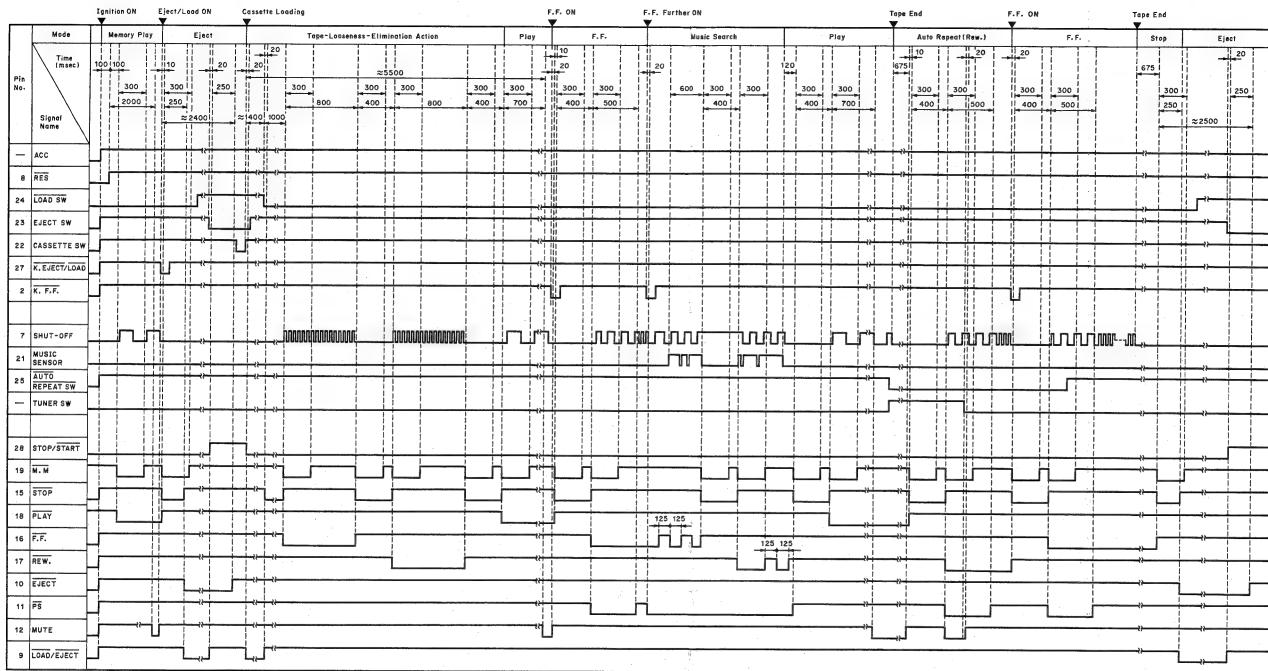


Fig. 11

12. BLOCK DIAGRAMS

12.1. Tuner and Amplifier Section

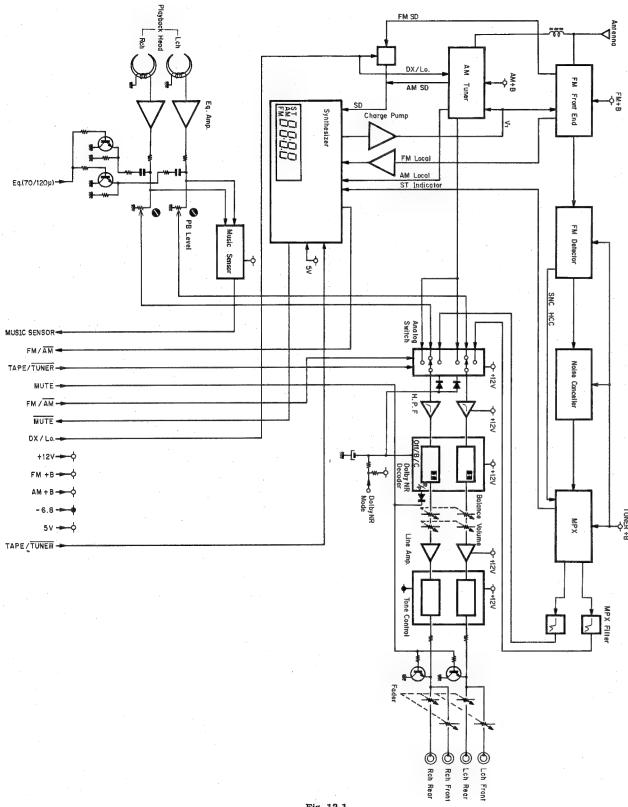


Fig. 12.1

12.2. Mechanism Control Section

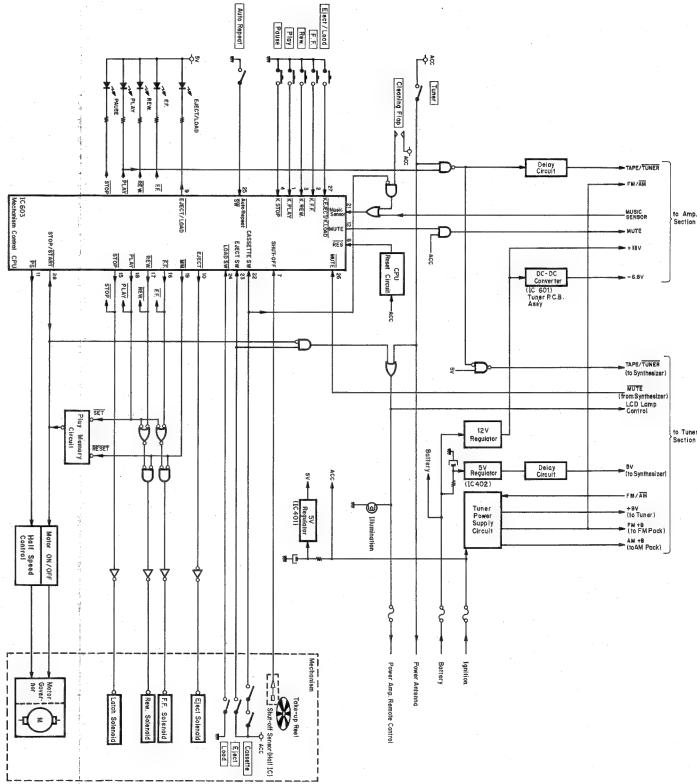


Fig. 12.3

(2) Amplifier Section

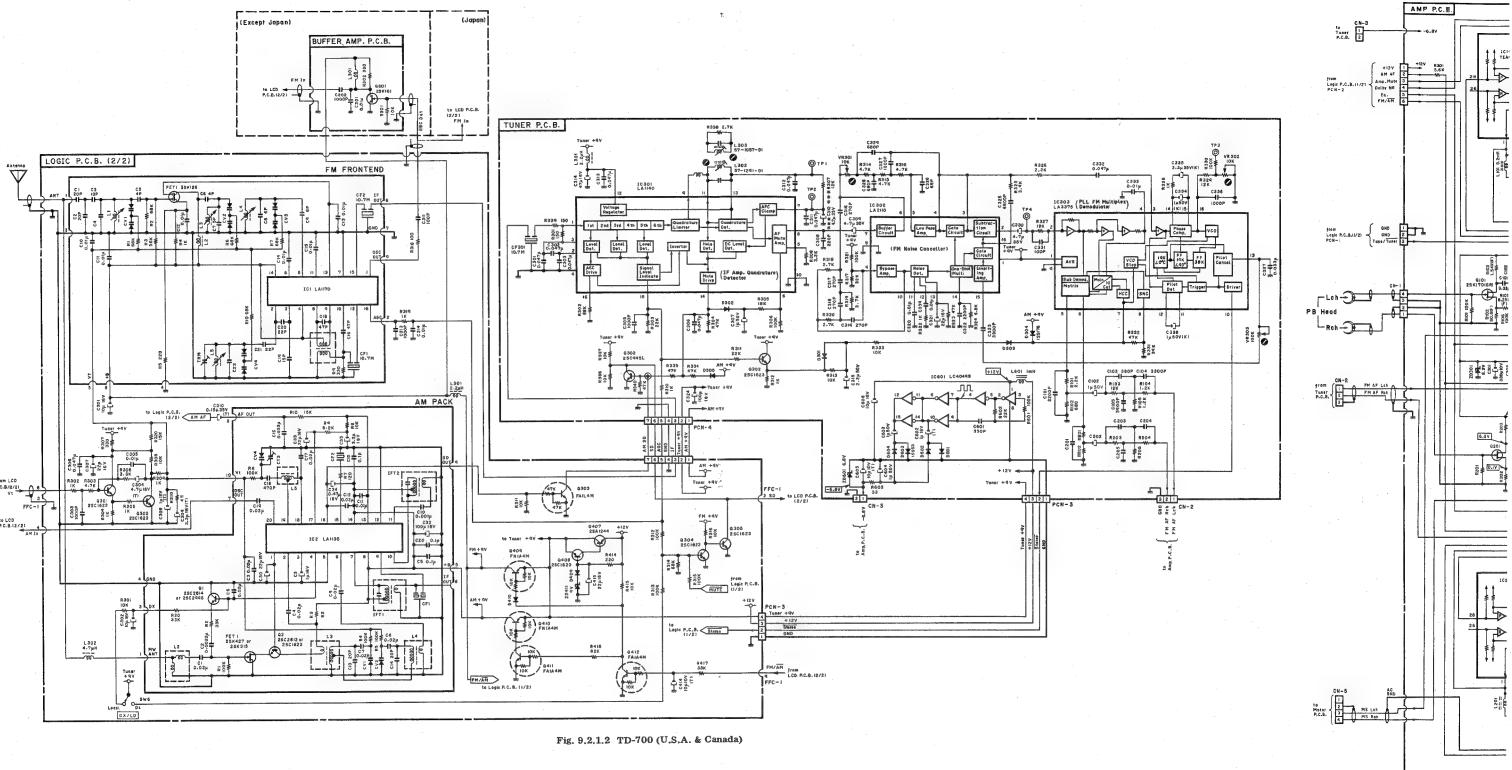


Fig. 9.2.1.2 TD-700 (U.S.A. & Canada)

Notes: 1. Diode is MA221 or RLS-73 unless otherwise specified.
 2. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

(2) Amplifier Section

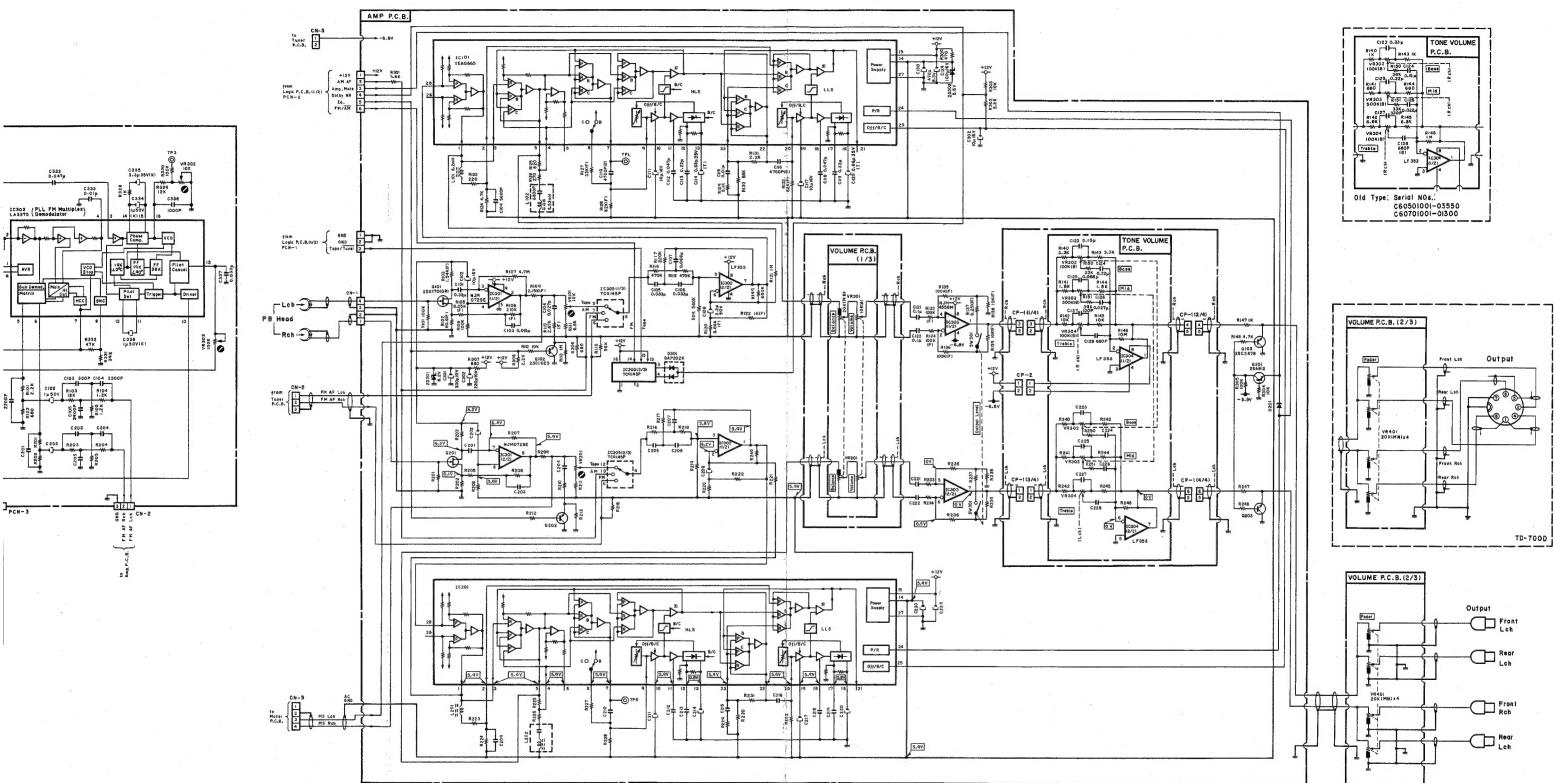
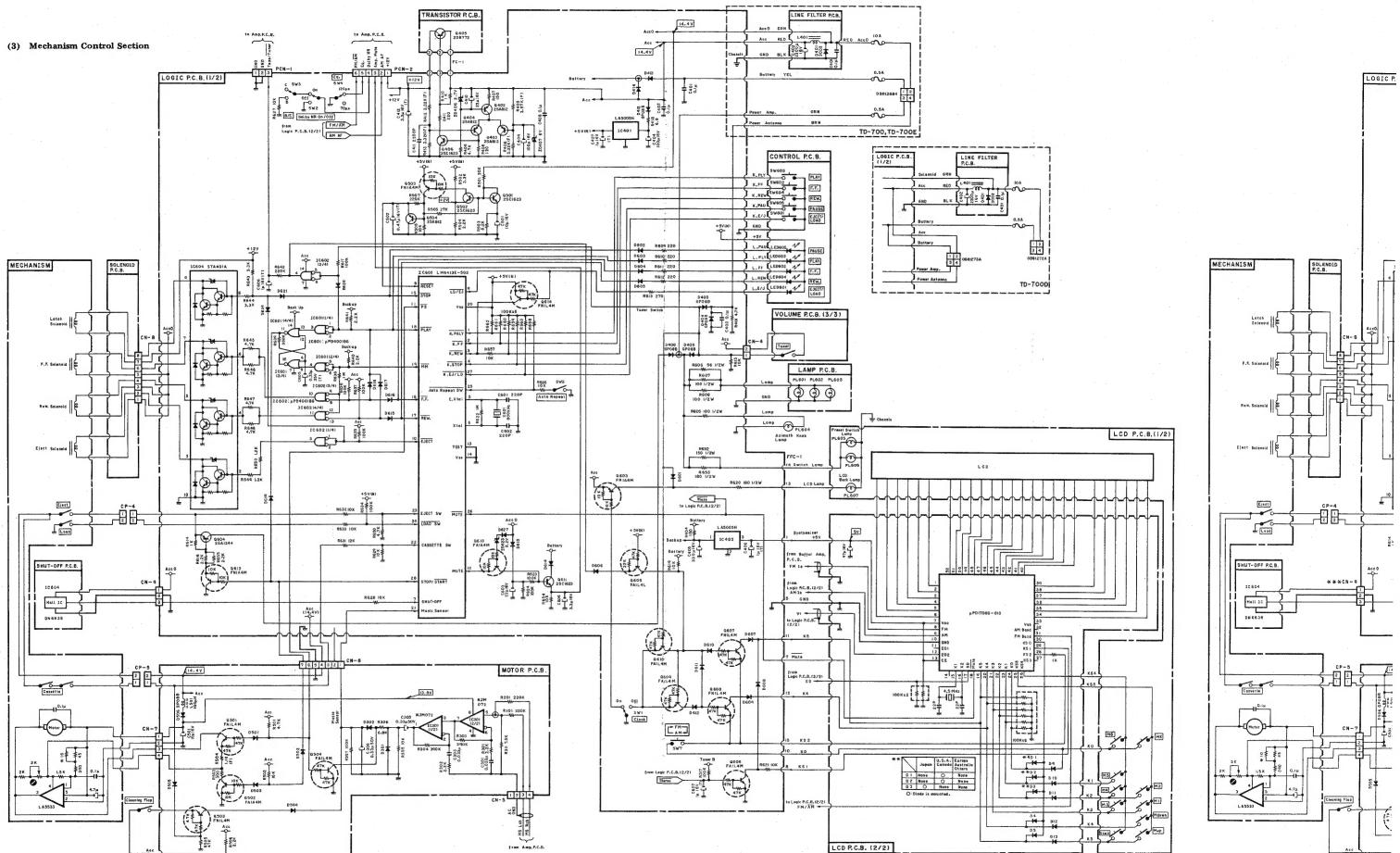


Fig. 9.2.2

otherwise specified.
2SC2785 are interchangeable with each other.

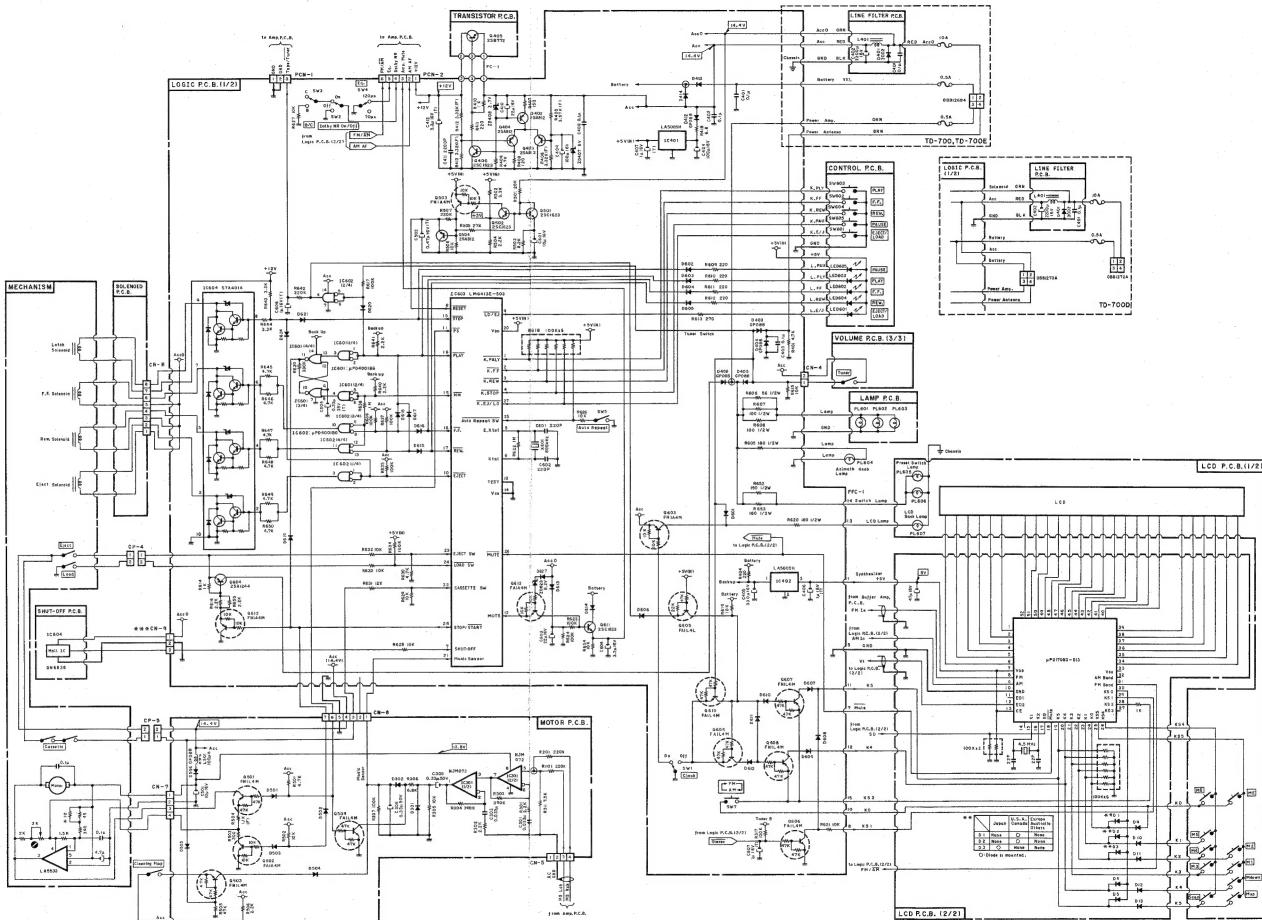
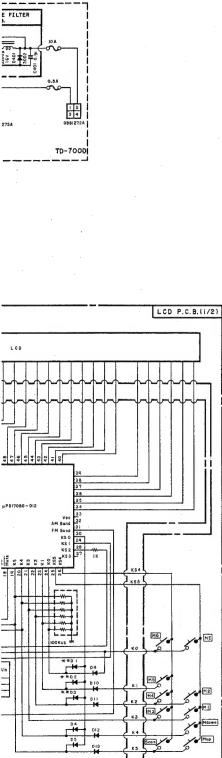
(3) Mechanism Control Section



Note: Diode is MA221 or RLS-73 unless otherwise specified.

Fig. 9.2.3.1 C60504101 - (TD-700 & TD-700E)

***: 3P coupler (CP-3) is used for the Models be:
C60501001 - 03398 (TD-700 & TD-700E)



***: 3P coupler (CP-3) is used for the Models bearing the following serial Nos. instead of CN-9:
 C60501001 - 03398 (TD-700 & TD-700E) & C60701001 - 01250 (TD-700D)

Fig. 9.2.3.2 C60501001 - 04100 (TD-700 & TD-700E)
 C60701001 - (TD-700D)

13. SPECIFICATIONS

● Cassette Deck Section

Tape Speed	1-7/8 ips (4.8 cm/sec.)
Wow and Flutter	Less than 0.05% WTD RMS
	Less than ±0.1% WTD Peak
Frequency Response	20-21,000 Hz ±3 dB (Nakamichi Test Tape)
Signal to Noise Ratio	Dolby C-Type NR On <70 µs, ZX Tape> Better than 70 dB (400 Hz, 3% THD, IHF A-WTD RMS)
	Dolby B-Type NR On <70 µs, ZX Tape> Better than 64 dB (400 Hz, 3% THD, IHF A-WTD RMS)
Channel Separation	Better than 34 dB (1 kHz, 0 dB)
Crosstalk	Better than 60 dB (1 kHz, 0 dB)
Winding Time (Fast Forward/Fast Reverse)	Approx. 75 sec. (with C-60 cassette)

● Tuner Section

—FM—

Frequency Range	87.5-107.9 MHz
Sensitivity	18 dBf (IHF)
50 dB Quieting Sensitivity	20 dBf (Mono)
Total Harmonic Distortion	0.15% (Mono 1 kHz) Input 65 dBf 0.3% (Stereo 1 kHz) Input 65 dBf
S/N Ratio	65 dB (Mono)
Frequency Response	30-15,000 Hz ±3 dB
Alternate Channel Selectivity	65 dB (±400 kHz)
Capture Ratio	2 dB
Image Rejection at 98 MHz	55 dB
IF Rejection at 98 MHz	80 dB
Stereo Separation	35 dB (1 kHz) at 65 dBf
Antenna Terminals	75 ohms (unbalanced)

—AM—

Frequency Range	530-1620 kHz
Sensitivity	33 dB μ

● Preamplifier Section

Frequency Response	10-50,000 Hz ±1 dB
Output Level/Impedance	0.35 V (Low) or 1.1 V (High)/1 kohms
Total Harmonic Distortion	Less than 0.005%
Tone Control	

Bass	20 Hz ±18 dB
Mid	200 Hz ±10 dB
Treble	20 kHz ±12 dB

Dimensions	178 (W) x 50 (H) x 165 (D) mm 7 (W) x 2 (H) x 6-1/2 (D) inches
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Approximate Weight	1.9 kg/4 lb. 3 oz.
Power Source	14.4 V DC negative ground (10.8-15.6 V allowable)
Power Consumption	6.5 A Maximum

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